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# Historical Relation

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# KINGDOM

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# SIAM.

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Monsieur DE LA LOUBERE,

Envoy Extraordinary from the FRENCH KING, to the KING of SIAM, in the years 1687 and 1688.

Wherein a full and curious Account is given of the Chinele Way of Arithmetick, and Mathematick Learning.

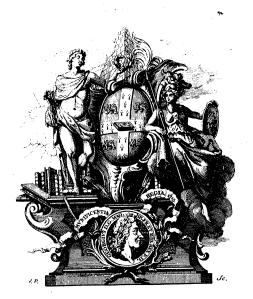
# In Two T O M E S

Illustrated with Sculptures.

Done out of French, by A. P. Gen. R. S.S.

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### ANEW

# HISTORICAL RELATION

OF THE

# KINGDOM

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# SIAM.

The Occasion and Design of this Work.

I my return from the Voyage I made to Siam, in quality of his The Occasion Most Christian Majestics Envoy Extraordinary, they whose right of this work it is to command, requir'd me to render them an exact account of the things, which I had seen or learnt in that Country; which will be the whole matter of this work. Others have sufficiently informed the Public of the Circumstances of this long Voyage: But as to what concerns the Description of a Country, we cannot have too many Relations, if we would perfectly know it: the list always illustrating the former. But that it may be known from what time I write, I shall declare only that we set Sail from Brest on the First of March, Anno 1687. That we cast Anchor in the Road of Siam the 27th of September, in the same Tear. That we departed thence for our return the 3d of January, 1688. And that we landed at Brest the 27th of July following.

My Design is therefore to treat stript of the Country of Siam, its Extent, The Design Fertility, and the qualities of its Soil and Climate: Secondly, I will ex-ot this work. Plain the manners of the Siamcses in general, and then their particular plain the manners of their various Qualities. Their Government and Reliculations according to their various Qualities. Their Government and Religion shall be comprehended in the last part; and I flatter my self that the gion shall be comprehended in the last part; and I flatter my self that the will simply of Curiosity; by reason that the Nature and Genius of will simply of Curiosity; by reason that the Nature and Genius of the Siamcses, which I have every where endeavoured to penetrate into, will be discovered more and more: In sine, not to stay on things, which would be discovered more and more: In sine, not to stay on things, which would not please every one, or which would interrupt my Narrative too much, I will at the end insert several Memoirs which I brought from this Country.

# The Occasion and Design of this Work.

and which I cannot suppress without injuring the Curiosity of the Public. But if notwithstanding this precaution, I do yet enlarge on certain matters beyond the reliss of some, I intreat them to consider that general expressions do never afford just I Idea's; and that this is to proceed no sather than the superscial knowledge of things. Tis out of this desire of making the Siameles perfectly known, that I give several notices of the other Kingdoms of the Indies and of China: For though rigorously taken, all this may appear foreign to my Subject, yet to me it seems that the Comparison of the things of Neighbouring Countries with each other, does greatly illustrate them. I hope also that a pardon will be granted me for the Siamele names, which I relate and explain. These remarks will make other relations intelligible as well as mine, which without these Illustrations might sometimes cause a doubt concerning what I assert.

In a word, those with whom I am acquainted do know that I love the Truth; but it is not sufficient to give a sincere relation to make it appear true: Tis requisite to add clearness to sincerity, and to be thoroughly informed of that wherein we undertake to instruct others. I have therefore considered, interrogated, and penetrated, as far as it was possible; and to render my self more capable of doing it, I carefully read over, before my arrival at Siam, several Autient and Modern Relations of divers Countrys of the East. So that in my opinion this preparation has supplied the defect of a longer residence, and has made me to remark and understand in the three Months I was at Siam, what I could not perhaps have understood or remark d in three Tears, without the assistance and perusal of those Dis-

courfes.



# PART I.

Of the Country of Siam.

### CHAP. I:

## The Geographical Description.

Avigation has sufficiently made known the Sea Coasts of the King- How much dom of Siam, and many Authors have described them, but they know this Kingdom almost nothing of the Inland Country, because the Siame(st have is unknown nor made a Map of their Country, or at least know how to keep nor made a Map of their Country, or at least know how to keep That which I here present is the work of an European, who went up the regional River of the Country, to the Evontiers of the King. th tecret. I hat which I here pretent is the work of an European, who went up the Menam, the principal River of the Country, to the Frontiers of the Kingdom; but was not skilful enough to give all the Positions with an entire exactness. Befides he has not seen all; and therefore I thought it necessary to give his Map to Mr. Cassimi, Director of the Observatory at Paris, to correct it by some Memorials which were given me at Stam Nevertheless I know it to be fill defectives, but yer it fails not to give some notices of this Kingdom which tome Memorials which were given me at Stam. Neverthelets 1 know it to be fill defective; but yet it fails not to give some notices of this Kingdom which were never heard of, and of being more exact in those we already have:

Its Frontiers extend Northward to the 224 Degree, or thereabouts; and Its Frontiers the Road which terminates the Gulph of Stam, being almost at the Latitude of Northward.

13 degrees and a half, it follows, that this whole extent, of which we hardly have any knowledge, runsabout 170 Leagues in a direct Line, reckoning 20 Leagues ray degree of Latitude after the manner of our Seamen.

have any knowledge, runs about 170 Leagues in a direct Line, reckoning 20 Leagues to a degree of Latitude, after the manner of our Seamen.

Leagues to a degree of Latitude, after the manner of our Seamen.

The Siameles do lay that the City of Chiamat is fifteen days journey more to The City of the North, than the Frontiers of their Kingdom, that is to fay at most, be-chiamat and its tween fixty and leventy Leagues; for they are Journeys by water, and against Lake, tween fixty and leventy Leagues; for they are Journeys by water, and against Lake, City, and abandon'd it, after having carried away all the People; and it has City, and abandon'd it, after having carried away all the People; and it has been fince repeopled by the King of Ava, to whom Paga does at present render Obedience. But the Siameles which were at that expedition, do not know that famous Lake, from whence our Geographers make the River Monam arile, and to which, according to them, this City gives its Names: which makes me to think either that it is more distant than our Geographers have conceived, or that there is no such Lake. It may also happen that this City adjoyning to several Kingdoms, and being more subject than another to be ruined by War, has not always been rebuile in the same place: And this is not difficult to imagine of the Cities which are built only with wood, as all in these Countreys are, of the Cities which are built only with wood, as all in these Countreys are, and which in their destruction leave not any Ruines nor Foundations. However it may be doubted, whether the Mexam fprings from a Lake, by reason it is fo small at its entrance into the Kingdom of Siam, that for about fifty Leagues, it carries only little Boats capable of holding no more than four or five Persons at most.

nve regions at most.

The Kingdom of Siam is bounded from the East to the North by high Mounth Country

The Kingdom of Law, and on the North and West of siam is only
tains, which separate it from the Kingdom of Law, and on the North and West of siam is only by others, which divide it from the Kingdoms of Pegu and Ava. This double a Valley. by others, which divide it from the rangdoms of *Pegu* and *ADA*. This double Chain of Mountains (inhabited by a few, favage, and poor, but yet free People, whose Life is innocent) leaves between them a great Valley, containing in some places between fourfcore and an hundred Leagues in bredth, and is water

tered from the City of Chiamai to the Sea, that is to fay from the North to the South, with an excellent River which the Siamefes call Menam, or Mother-water, to fignifie, a great water, which being encreased by the Brooks and Rivers it receives on every fide, from the Mountains I have mentioned, discharges it felf at last into the Gulph of Siam by three mouths, the most navigable of which is that toward the East.

On this River, and about seven Miles from the Sea, is seated the City of on the River. Fancok: and I shall transfertly declare, that the Siameses have very few habitations on their Coasts, which are not far distant from thence; but are almost all feated on Rivers navigable enough to afford them the Commerce of the Sea. As to the names of most of these places, which for this reason may be called Mariting, they are diguifed by Foreigners. Thus the City of Bancel, is called Fon in Stamefe, it not being known from whence the name of Bancel, is derived, altho there be feveral Siamese Names, that begin with the word Ban, which

The Gardens of Bancok.

The Gardens which are in the Territory of Bancok, for the space of four Leagues, in ascending towards the City of Siam to a place named Talucoan, do fupply this City with the Nourishment which the Natives of the Country love best. I mean a great quantity of Fruit.

Other Cities The other principal places which the Menam waters, are, Me-Tae the first on the Monaton. City of the Kingdom to the North North-West, and then successively Transcriptors. Tong, Campeng pet or Campeng fimple, which some do pronounce Campingue, Laconcevan, Telainat, Siam, Talacoan, Talaqueou, and Bancok. Between the two Cities of Tehainat and Siam, and at a distance, which the Maranders of the River do render almost equal from each other, the River leaves the City of Louve a little to the Easthat the 14d. 42 m. 32 S. of Latitude, according to the observations which the Jesuices have published. The King of Siam does there fpend the greatest part of the year, the more commodiously to enjoy the diverfion of Hunting: but Lonvo would not be habitable, were it not for a channel cut from the River to water it. The City of Me-Tac renders obedience to an Hereditary Lord, who, they fay, is a Vaffal to the King of Siam, whom some call Paya-Tac, or Prince of Tac. Tian Tong is ruin'd, doubtless by the Ancient Wars of Pegu. Campeng is known by the Mines of excellent Steel.

Another River At the City of Laconcevan the Menam receives another confiderable River likewise called which comes also from the North, and is likewise called Menam, a name common to all great Rivers. Our Geographers make it to spring from the Lake of Chiamai: but it is certain that it hath its source in the Mountains, which lye not so much to the North as this City. It runs first to Menang-sang, then to Pitchiai, Pitsanoulouc, and Pitchit, and at last to Laconcevan, where it mixes, as I have faid with the other River.

Pitfanouloue, which the Portugueses do corruptly call Porseloue has formerly had hereditary Lords, like the City of Me Tae: and Juftice is at prefent executed in the Palace of the Ancient Princes. 'Tis a City of great commerce, fortified with fourteen Bastions, and is at 19 degrees and some minutes Latitude.

Laconcevan stands about the mid-way from Pitsanonlouc or Porselouc to Siam, a distance computed to be Twenty five days Journey, for those that go up the River in a Boat or Balon; but this voyage may be performed in twelve days

Cities of Wood.

when they have a great many Rowers, and they afcend the River with speed.

These Cities, like all the rest in the Kingdom of Siam, are only a great number of Cabbins frequently environ'd with an enclofure of Wood, and fome-times with a Brick, or Stone Wall, but very rarely of Stone. Nevertheleß as the Eastern people have ever had as much magnificence and pride in the figures of their Language, as fimplicity and poverty in whatever appertains to Life, the names of these Cities do fignifie great things; Tim Tong, for instance, fignities True Gold; Campeng pet, Walls of Diamond; and 'tis said that its

The supersti- Walls are of Stone: and Laconcevan fignifies the Mountain of Heaven. tion of the 61 But as for what concerns Menang lang, the word Fing being the name of a smell and lang lang.

Tree famous for dying, and which the Portugueses have called Supan; some in-

# Part I. of the Kingdom of SIAM.

A MAPP of the Course of the River MENAM from SIAM to the SEA. Reduced from a Large one made by Mons: de le Mar Ingenie to the French King Pagod Royal I.ROYALL Palace Royal Bannor Bansamlero c Ban Couaco Banseumae Samkoc Ban niou Ban pac tret ya O Ban pac tret not Ban pac naam Wooden for Talaque Ban house The dwelling of the Hollander.

terpret it the City of the Wood of Sapan. And because that there is kept a Tooth, which is pretended to be a Relick of Semmona-Codom, to whose Memory the Siameses do erect all their Temples; there are some who call not this City Menang-sang, but Menang-san, or the City of the Tooth. The superstition of these people continually draws thither a great number of Pilgrims, not Siameses only, but from Pegu, and Laos.

Such another Superfittion prevails at a place named Pra bat, about five or Another Sufix leagues to the Eaft-North Eaft of the City of Lorvo; the superfittion is perfittion at this; In the Balle Language, which is the learned tongue of the Siame[es, or the Tongue of their Religion, Bar signifies a Foot, and the word Pra, of which it is not possible exactly to render the signification, signifies in the same tongue whatever may be conceived worthy of veneration and respect. The Siame[es do give this title to the Sun and Moon, but they do also give it to Semmons-Co.

dom, to their Kings, and some considerable Officers.

The Prabat is therefore the print of a mans foot, cut by an ill Graver upon What it is a Rock; but this impression containing about 13 or 14 inches in depth, is sive or fix times as long as a man's Foot, and proportionably as broad. The Simmeles of the Rhinoceros, and all the other Beastls of their Woods, do likewise go to worthip it when no person is there; And the King of Siam himself goes to adore it once a year with a great deal of Pomp and Ceremony. It is covered with a Plate of Gold, and inclosed in a Chappel which is there built. They report that this Rock which is now very start and like a new mown Field, was sormely a very high Mountain, which shrunk and waxed level on a student under the Foot of Sammona Codom, in memory of whom they believe that the Impression of the Foot does there remain. Nevertheless it is certain by the Testimony of ancient men, that the Antiquity of this Tradition exceeds not 90 years. A Talapsin, or Religious Stamele, of that time, having doubtless made this Impression himself, or procured it to be made, and then seigned to have miraculously discovered it; and without any other appearance of Truth, gave Reputation and Credit to

this Fable of the levell'd Mountain.

Now in all this the Siamefes are only groß Imitators. In the Histories of In The Original Mow in all this the Siamefes are only groß Imitators. In the Histories of In The Original Sia it is related, with what respect a King of the Island of Coylon kept an Apes of this Superdia in the Indians averred to be a Relique, and with what Sums he endeavoured to purchase and ransom it from Constantine of Brigantium, then Vicetoy of the Indian, who had sound it amongst the Spoils taken from the Indians:

But Constantine chose rather to burn it, and afterwards throw the Aslaes into a River. Tis known likewise that in the same Island of Coylon, which the Indians and call Lanca, and on a real Mountain which is not levelled, there is a presented eprint of a Man's soot, which has for a long time been in great Veneration there. It doubtless represents the Left foot: For the Siamese's report that Sommona-Codom set his right foot on their Probat, and his less on Lanca 3 although the whole Gulph of Bengala runs between them.

The Portiquese have called the Print at Ceston Adam's Foot, and believe that What the Aceston was the Terreftrial Paradise, from the Faith of the Indians at Ceston, who dam's foot of declare that the Impression which they reverence, is the Print of the first Man: Every one of these Heathenish Nations vigorously affecting that the stift Man inhabited their County. Thus the Chineses de call the first man Pronend, and believe that he inhabited China. I say nothing of some other Impressions of this nature, which are rever'd in several places of the Indies; nor of the pretended print of Herenles foot, mentioned by Herodotm. I return to my Lib. 4 c. 82: shiplest.

### CHAP. II.

### A Continuation of the Geographical Description of the Kingdom of Siam, with an Account of its Metropolis.

Other Cities O N the Frontiers of Pegu is feated the City of Cambory, and on the borders of the King.

Of Last the Town of Coracema, which some do call Caviffina, both very done of Stime. dom of Siam. Famous. And in the Lands which lie between the Rivers above the City of Laconcevan, and on the Channels which have a Communication from one River to the other, there are two other confiderable Cities, Socotai, almost in the same Latitude with Pitchit, and Sanqueloue more to the North.

neis. The City of

The Country being fo hot that it is inhabitable only near Rivers, the Stamefer have cut a great many Channels, and without having better Memoirs or Notes, its impossible to reckon up all the Cities seated thereon.

Tis by the means of these Channels, called by the Stameses Cloum, that the Sim deferibed.

City of Siam is not only become an Illand, but is placed in the middle of teverbed. ral Iflands, which renders the fituation thereof very fingular. The Ifle wherein it is fituated, is at prefent all inclosed within its walls, which certainly was not in the time of Ferdinand Mennes Pinto; if notwithstanding the continual mistakes of this Author, who feems to rely too much on his memory, we may believe what he fays, that the Elephants of the King of Pegu, who then belieged the City of Siam, did so nearly approach the Walls, as with their Trunks to beat down the Palifado's which the Siamefes had there placed to cover themfelves.

Its Latitude, according to Father Thomas the Jesuit, is 14 d. 20 m. 40 S. and its Longitude 120 d. 30 m. It has almost the figure of a Purse, the mouth of which is to the East, and the bottom to the West. The River meets it at the North by several Channels, which run into that which environs it; and leaves it on the South, by separating itself again into several streams. The Kings Palace stands to the North on the Canal which embraces the City; and by turning to the East, there is a Causey, by which alone, as by an Islamus, People may go out of the City without croffing the water.

The City is spacious, considering the Circuit of its Walls, which, as I have faid, incloses the whole Isle; but scarce the fixth part thereof is inhabited, and that to the South-East only. The rest lies desart, where the Temples only stand. Tis true that the Suburbs, which are possessed by strangers, do considerably increase the number of the People. The streets thereof are large and ftrait, and in some places planted with Trees, and paved with Bricks laid edge-wife. The Houses are low and built with Wood; at least those belonging to the Natives, who, for these Reasons, are exposed to all the Inconveniences of the exceffive heat. Most of the streets are watered with strait Canals, which have made Siam to be compar'd to Venice, and on which are a great many small Bridges of Hurdles, and some of Brick very high and ugly.

Its Names.

The Name of Siam is unknown to the Siamele. It is one of those words which the Portugues of the Indies do use, and of which it is very difficult to discover the Original. They use it as the Name of the Nation, and not of the Kingdom: And the Names of Pegu, Lao, Mogul, and most of the Names which we give to the Indian Kingdoms, are likewise National Names; fo that to speak rightly, we must say, the King of the Pegnins, Lass, Magus, Siams, as our Ancestors said, the King of the Franc's. In a word, those that understand Posts guese, do well know that according to their Orthography, Siam and Siaom are the fame thing; and that by the Similitude of our Language to theirs, we ought to fay the Sions, and not the Siams: fo when they write in Latin, they call them

Name of the The Siameses give to themselves the Name of Tai, or Free, as the word now Siameles fignifies in their Language: And thus they flatter themselves with bearing the

# G. The Semina The Portugue The Dutch Pactory. The Inclosur where the Elephanir are taken M.A House begun for the French Ambafiadors 800 French Toise. A Map of Bancock

### of the Kingdom of SIAM. Part I.

Name of France, which our Ancestors assumed when they resolved to deliver the Gauls from the Roman Power. And those that understand the Language of Pegu, affirm that Siam in that Tongue fignifies Free. Tis from thence perhaps that the Portugues have derived this word, having probably known the Stamefes by the Peguins. Nevertheles Navarete in his Historical Treatifes of the Kingdom of China, chap. 1. art. 5. relates that the Name of Siam, which he writes Sian, comes from these two words Sien lo, without adding their signification, or of what Language they are; altho it may be prefumed he gives them for Chinefe, Menang Tai is therefore the Stamese Name of the Kingdom of Stam (for Menang fignifies Kingdom) and this word wrote fimply Muantay, is found in Vincent le Bl.mc, and in several Geographical Maps, as the Name of a Kingdom adjoining to Pegu: But Vincent le Blane apprehended not that this was the Kingdom of Siam, not imagining perhaps that Siam and Tai were two different

Names of the same People. As for the City of Siam, the Siameses do call it Si-yo-thi-ya, the o of the Syllable yo being closer than our Dipthong as. Sometimes also they call it Crang the papea maba nacon: But most of these words are difficult to understand, because they are taken from this Baly Language, which I have already declared to be the learned Language of the Stamefes, and which they themselves do not always perfectly understand. I have already remark'd what I know concerning the word Pra, that of Maha fignifies Great. Thus in speaking of their King, they ftile him Pra Maha Graffat; and the word Craffat, according to their report fignifies living; and because the Portugues have thought that Pra fignifics God, they imagin that the Siamefes called their King, The great living God. From Si-yo thi ya, the Stamese Name of the City of Stam, Foreigners have made Judia, and Odiaa, by which it appears that i incent le Blane, and some other Authors, do

very ill distinguish Odiaa from Siam: In a word, the Siameses, of whom I treat, do call themselves Tai Noc, little Si. Two different ans. There are others, as I was informed, altogether favage, which are called seventhers. Tui yai, great Siams, and which do live in the Northern Mountains. In feveral Relations of these Countries, I find a Kingdom of Siammon, or Siami: but a'l

do not agree that the People thereof are favage.

In fine, the Mountains which lie on the common Frontiers of Aca, Pega and Other Mour-Sian, gradually decreafing as they extend to the South, do form the Peninfula of this, and of the South, do form the Peninfula of this said of the South, do form the Peninfula of this said of the South, do form the Peninfula of this said of the South, do form the Peninfula of this said of the South, do form the Peninfula of this said of the South, do form the Peninfula of this said of the South, do form the Peninfula of this said of the South, do form the Peninfula of this said of the South, do form the Peninfula of this said of the South, do form the Peninfula of this said of the South, do form the Peninfula of this said of the South, do form the Peninfula of this said of the South, do form the Peninfula of this said of the South, do form the Peninfula of the South, do form the Peninfula of the South of the Sout India extra Gangem, which terminating at the City of Sincapara, separates the ther Frontiers. Gulphs of Siam and Bengala, and which with the Island of Sumatra forms the famous Strait of Malaca, or Sincapura. Several Rivers do fall from every part of these Mountains into the Gulphs of Sun and Rengala, and render these Coasts habitable. The other Mountains which rife between the Kingdom of Sian and Laos, and extend theinfelves also towards the South, do run gradually decreafing, till they terminate at the Cape of Camboya, the most Eastern of all those in the Continent of Asia toward the South. Tis about the Latitude of this Cape, that the Gulph of Siam begins; and the Kingdom of this Name extends a great way towards the South in form of an Horseshoe on either side of the Gulph, viz. along the Eaftern Coast to the River Chantebon, where the Kingdom of Camboya begins; and opposite thereunto, viz. in the Peningula extra Gangen, which lies on the West of the Gulph of Siam, it extends to Quels and Patana, the Territories of the Melayans, of which Malaca was formerly the Me-

After this manner it runs about 200 Leagues on the fide toward the Gulph of The Coaffs of Siam, and 180, or thereabouts, on the Gulph of Bengal, an advantageous fituation Siam. which opens unto the Natives of the Countrey the Navigation on all thefe vaft Eaftern Seas. Add that as Nature has refus'd all manner of Ports and Roads to the Coast of Coronandel, which forms the Gulph of Bengal to the West, it has therewith earich'd that of Siem which is opposite to it, and which is on the East of the same Gulph.

A great number of Isles do cover it, and render it almost everywhere a safe isles ef sion Harbor for Ships; befales, that most of these Isles have very excellent Perts, in the Gulpt and abundance of fresh water and wood, an invitation for new Colonies. The of Bengal.

King of Siam affects to be called Lord thereof, altho' his People, who are very thin in the firm Land, have never inhabited them; and he has not strength enough at Sea to prohibit or hinder the enterance thereof to strangers.

The City of Merguy.

The City of Merguy lies on the North-West Point of a great and populous Island, which at the extremity of its course forms a very excellent River, which the Europeans have called Tenasserim, from the Name of a City seated on its Banks about 15 Leagues from the Sea. This River comes from the North, and after having passed through the Kingdoms of Ava and Pegu, and enter'd into the Lands under the King of Siam's Intifdiction, it discharges itself by three Chanels into the Gulph of Bengal, and forms the Island I have mention'd. The Ports of Merguy, which some report to be the best in all India, is between this Isle and another that is inhabited, and lies opposite, and to the West of this, wherein Mergny is fituated.

#### CHAP. III.

### Concerning the History and Origine of the Siameses.

little curious of their Hi-

The Stameles THE Stamele History is full of Fables. The Books thereof are very scarce, L by reason the Siamoses have not the use of Printing; for upon other Accounts I doubt of the report, that they affect to conceal their History, seeing that the Chineses, whom in many things they imitate, are not so jealous of theirs. However that matter is, notwithflanding this pretended Jealousy of the Siame-fes, they who have attained to read any thing of the History of Siam, affert that it ascends not very high with any character of truth.

The Epochs of Behold a very dry and infipid Chronological Abridgment which the Siamefes the stamefes. have given thereof: But before we proceed, it is necessary to tell you, that the current year 1689, beginning it in the month of December 1688, is the 2233 of their Æra, from which they date the Epocha, or beginning (as they fay) from Sommona-Codom's death. But I am perfuaded that this Epocha has quite another foundation, which I shall afterwards explain.

Their Kings. Their first King was named Pra Post home sonrittep pennaratus sonome bopitras. The chief place where he kept his Court was called Tohai pappe Mahanacon, the situation of which I ignore; and he began to reign An. 1300. computing after their Epocha. Ten other Kings fucceeded him, the laft of which, named Ipoja funne Thora Thefina Teperat, removed his Royal Seat to the City of Tafoo Nacora Lonang, which he had built, the fituation of which is also unknown to me: The twelfth King after him, whose Name was Pra Poa Noome Thele feri, obliged all his People in 1731, to follow him to Locintai, a City feated on a River, which descends from the Mountains of Laos, and runs into the Menam a little above Porfeloue, from which Locontai is between 40 and 50 Leagues diffunt. But this Prince refided not always at Locontai; for he came and built, and inhabited the City of Pipeli on a River, the mouth of which is about two Leagues to the Welf of the most occidental mouth of *Menam*. Four other Kings succeeded him, of which *Rhamatilondi*, the last of the four, began to build the City of *Siam* in 1894, and there established his Court. By which it appears, that they allow to the City of Siam the Antiquity of 338 years. The King Regent is the twenty fifth from Rhamarilondi, and this year 1689, is the 56th or 57th year of his age. Thus do they reckon 52 Kings in the space of 934 years, but not all of the same

The Race of Mr. Gervaife in his Natural and Political History of the Kingdom of Siam, gives us the Hiftory of the now Regent King's Father; and Van Vliet gives it us much more circumstanciated, in his Historical Relation of the Kingdom of Siam, printed at the end of Sir Thomas Herbert's Travels into Perlia. I refer the Reader thithet to fee an Example of the Revolutions, which are common at Siam; for this

of the Kingdom of SIAM. Part I.

King who was not of the Royal Race, tho' Vliet afferts the contrary, took away the Scepter and Life of his Natural Lords, and put to death all the Princes of their Blood except two, which were alive when Vite writ, but of whom I their blood except two, which were all could not learn any News. Without all doubt his Ulurper put them to death like the reft. And in truth, John Stray, in the First Tome of his Voyages, afferts that this was the Fate of the last of these two Princes, who was alive in the year 1650, and was then 20 years old; the Tyrant put him to death that very year, with one of his Sifters, upon an Accusation notoriously false: But a remarkable Circumstance of the History of his Usurpation, was, that entering by Temple, and carry'd him back a Prisoner to the Palace, he cored to the King to quit it, and flie into a Temple for refuge; and having drag'd this unfortunate Prince out of this Temple, and carry'd him back a Prisoner to the Palace, he caused him to be declared unworthy of the Crown and Government, for having deferted the Palace. To this Usurper who died in 1657, after a Reign of 30 years, succeeded his Brother; because his Son could not, or durft not then to dispute the Crown with him. On the contrary, to secure his Life, he sought a Sanctuary in a Cloyster, and cloath'd himself with the inviolable Habit of a Talapsin. he afterwards so politickly took his measures, that he disposses'd his Uncle, who flying from the Palace on his Elephant, was flain by a Portuguese with a

Ferdinand Mendez Pinto relates that the King of Siam, who reigned in 1547, Another Exand to whom he gives great Praises, was poyfon'd by the Queen his Wife at his ample of the and to whom he gives great Praifes, was poyfon'd by the Queen his Wife at his ample of the return from a military Expedition. This Princefs deliberated thus to prevent the Revolutions vengeance of her Husband, by reason that during his absence she had maintain'd an amorous Commerce, by which she prov'd with Child. And this Author adds, that she soon after destroy'd the King her own Son in the same manner, and had the Credit to get the Crown set upon her Lover's Head the 17th of November 1548. But in January 1549, they were both affassinated in a Temple, and a Bastard Prince, the Brother and Uncle of the two last Kings, was taken out of a Cloyster to be advanced on the Throne. The Crowns of Asia are always instable, and those of India, China and Japan, much more than the others.

As for what concerns the Origine of the Siamefer, it would be difficult to A Doubt as to judge whether they are only a fingle People, directly descended from the first the Origine Men that inhabited the Countrey of Siam, or whether in process of time some of the siamother Nation has not also setled there, notwithstanding the first Inhabi-ses.

The principal Reason of this Doubt proceeds from the Siameses understand- Two Langua-I ne principal Reason or this Doubt process from the stamper uncertaint. I wo Languages, viz. the Vulgar, which is a simple Tongue, consisting almost ges at stam, wholly of Monosyllables, without Conjugation or Declension; and another Language which I have already spoken of, which to them is a dead Tongue, known only by the Learned, which is called the Balis Tongue, and which is enricht with the inflexions of words, like the Languages we have in Europe. The terms of Religion and Justice, the names of Offices, and all the Ornaments of the Vulgar Tongue are borrow d from the Balle. In this Language they compose their best Songs; so that it seems at least that some Foreign Colony had formerly inhabited the Countrey of Siam, and had carry'd thither a fecond Language. But this is a Dispute that might be rais'd concerning all the Countries of India; for, like Siam, they all have two Languages, one of which is still remaining only in their Books.

The Stameses affert that their Laws are Foreign, and came to them from the Whatthe siz-Countrey of Lass, which has, perhaps, no other Foundation than the Confor meles report Countrey of Laos, which has, perhaps, no other roundation than the Country may report mity of the Laws of Laos with those of Siam, even as there is a Conformity other correlation between the Religions of these two Nations, and with that of the Peguins. Now of these Laws this does not strictly prove that any of these three Kingdoms hat given its and Religion Laws and its Religion to the rest, seeing that it may happen that all the three may have deriv'd their Religion and their Laws from another common Source. However it be, as the Tradition is at Siam, that their Laws and Kings came from Lass, the same Tradition runs at Lass, that their Kings and most of their Laws came from Stam.

came from Siam.

er, kiere i Letasik A.C.

The Stamefes speak not of any Country where the Palie Language, which is that of their Laws and their Religion, is now in use. They suspect indeed, according to the report of some amongst them, which have been at the Coast Of the Balie of Coromandel, that the Balie Language has forme fimilitude with fome one of the Dialects of that Country: but they agree at the fame time that the Letters of the Balic Language are known only amongst them. The secular Missionaries established at Siam, are of opinion that this Language is not entirely extinct: by reason they saw in their Hospital a man come from about the Cape of Comorin, who interspers'd several Balie words in his discourse, affirming that they were used in his Country, and that he had never studied, and knew only his Mother Tongue. They moreover averr for truth, that the Religion of the Simmeles came from those Quarters, because that they have read in a Balie Book, that Sommona-Codom whom the Stamefes adore, was the Son of a King of the Island

But fetting afide all these uncertainties, the vulgar Language of the Siameses, refemble their like in its Simplicity to those of China, Tonquin, Cochinchina, and the other States of the Eaft, sufficiently evinces that those who speak it, are near of the same Genius with their Neighbours. Add hereunto their Indian Figure, the colour of their Complexion mixt with red and brown, (which corresponds neither to the North of Asia, Europe, nor Africk,) Add likewise their short Nose rounded at the end, as their Neighbours generally have it; the upper Bone of their Cheeks high and raifed, their Eyes slit a little upwards, their Ears larger than ours, in a word all the Lineaments of the Indian and Chinese Physiognomy ; their Countenance naturally squeez'd and bent like that of Apes, and a great many countenance naturany iqueez u and bent the that of Apres and a great many other things which they have in common with thefe Animals, as well as a marvellous paffion for Children. For nothing is equal to the Tenderness which the great Apres expressed to their Cubs, except the Love which the Siameses have for all Children, whether for their own, or those of another.

The King of Siam himself is incompassed with them, and delights to educate the control of the state of th

Sim loves them till feven or eight years old: after which, as they lofe the childith Air, they Children till 7 the 16.14 Feven which as they lofe the childith Air, they Childrentill, and the control of the adopted Son, others suspect him to be his Bastard; He is at least Foster Brother But if you confider the extreamly Low Lands of Siam, that they feem to

to his Lawful Daughter.

net the State of the Sea as it were by miracle, and that they lye annually under rain wafrom far to In-ter for feveral Months, the almost infinite number of very incommodious Infects which they engender, and the excessive Heat of the Climate under which they are feated; it is difficult to comprehend that others could refolve to inhabit them, excepting such as came thither by little and little from places adjacent: And it may be thought that they have been inhabited not many Ages, if a Judgment may be made thereof by the few Woods that are flubbed as yet. Moreover it would be necessary to travel more to the North of Siam, to find out the warlike People which could yield those innumerable swarms of men, which departed out of their own Country to go and possess others. And how is it possible that they should not be stopped on the Road, among some of those soft and effeminate People, which lye between the Country of the Scythians, and the

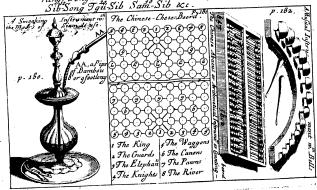
Woods and impaffable Rivers of the Siameles? Tis not therefore probable that the Lesser Siameser, which we have spoken of, are descended from the Greater, and that the Greater withdrew into the Mountains which they inhabit, to free themselves from the Tyranny of the neighbouring Princes, under which they Nevertheless it is certain that the Siamese blood is very much mixed with so-

have come to reign. Not to reckon the Pegnins, and the Inhabitants of Laos, which are at Siam, and whom I confider almost as the same Nation with the Siameses; 'tis not to be doubted that there formerly fled to Siam a great number of Strangers from different Countries, upon the account of a free Liberty of Trade, and by reason of the Wars of the true India, China, Japan, Tonquin, Cachinchina, and other States in the South part of Asia. They report likewise that in the City of

The Siamese numeral Names.

New Song Sam Sit hag how K. Ket peet Caon Sib. Sibet.

Sib Song Tgu Sib Sam-Sib &c.



Siam, there are forty different Nations: but inalmuch as Vincent le Blane speaks stam, there are forty different rations; but mannuch as spicent to Bitane Ipeaks in thefe very terms concerning the City of Martaban, this affected Number of Forty Nations appears unto me an Indian Vanity. The entire annihilation of the Commerce of Stam, having in thefe laft years forced most of the Foreigners, that fled thither, to feek out new Retreats, three or four Canoniers which are of Bergal, do now compose a Nation; three Cochinchinese Families do make another; the Moort alone which ought to be teckon'd only for one, do make more than ten, as well for that they came to Siam from different Nations, as for their being of various conditions, as Merchants, Soldiers, and Labourers. (I call Moors after the Spanish manner, not the Negros, but those Mahametans of Arabian Extraction, which our Ancestors have called Sarracens, and whose race is spread almost through our whole Hemisphere.) And notwithstanding all this, when the Ambassadors of the Foreigners, which at Siam are called the Forty Nations, came to falute the King's Envoys, there were reckoned no more than one and twenty

Nations, computing as the Siamefer would have us.

Nations, computing as the Siamefer would have us.

They inhabit different quarters in the City or Suburbs of Siam; and yet this the Kingdom City is very little inhabited in respect to its Bignels, and the Country much less of siam not a greater People, for were more in Proportion. It must be imagined that they defire not a greater People, for very numethey count them every year; and do well know, what no person ignores, that rous the only fecret to encrease them, would be to ease them in the Taxes and Impositions. The Stameses do therefore keep an exact account of the Men, Women, and Children; and in this vast extent of Land, according to their own Confession, they reckond up the last time but Nineteen Hundred Thousand Souls. From which I queftion not that fome retrenchment is to be made for Vanity and Lyes, Characters effential to the Eastern people; but on the other

hand, thereunto, must be added the Fugitives, which do seek a Sanctuary in the Woods against the Government.

### CHAP. IV.

# Of the Productions of Siam, and first of the Woods or Trees.

THE Country of Siam lyes almost wholly incultivated and covered with The Bambos. Woods One of their most eminent Trees is a kind of Reed called in Indian, Mambou, in Portuguese, Bambou, in Stamese, Mai pai. The Indians apply it to an infinite number of ules. Allian lib. 4. cap. 34. mentions it as their most ancient nourithment. At prefent they use it little; and that only in some of their dishes, when it is tender; and to preferve it, they Pickle it up in Vinegar, as we do Cacambers and Samphire. This Tree resembles the Poplar, it is strait and tall, and the Leaves thereof few, pale, and longith. It is hollow, and grows in shoots like our Reeds, and its shoots are separated from one another by knots: but it has Branches and Thorns, which our Reeds have not. It grows very close, and the same Roots do shoot forth several stems, so that nothing is thicker or more difficult to pass than a Forest of Bambon; and so much the more because the wood thereof is hard and difficult to cut, although it be easie to cleave. The Stameses do set it on fire by Friction, which is a token of its hardness. They have two pieces of Bambou clest, which are like two pieces of Lath, in the edge of the one they do make a notch, and do forcibly rub in this hole with the edge of the other, as with a Saw; and fome dry leaves, or other combustible matter, which is put in the north, fails not to catch fire without firing the Bambou. There is no Reed but has naturally fomewhat either more or less of a Sugary juice. That of the Bambou is famous in some places of India, as an excellent Remedy for feveral Maladies. It escaped my curiofity to ask whether the Sugar of the Bambou of Siam is as much fought after upon this account, as that of the Bambon of Malaca, which is not far diffant. The

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The Siameses report that they likewise have that Tree, which the Portuguese The Arvore de have called Arvore de Raize, and they Co-pai, but that they have no plenty: and they add that its wood hath this property (doubtless by its smell) that when any person hath a little of it near him in his Bed, it drives away the Gnats. 'Tis from the Branches of this Tree, fo frequently described in the Relations of *India*, that feveral Fibers do hang down to the ground, which there take root, and become as so many new Trunks: so that by little and little this Tree gains a confiderable plot of ground, on which it forms a kind of Labyrinth by its stems, which continually multiply, and which adhere to one another by the branches, from which these stems are fall'n. We have seen the Siameses seek out other Remedies against the Gnats than that of this wood: and this perswades me either that it is very rare, or that this vertue which is attributed thereunto, is not well attefted.

poquier.

The conton

But the Stameles have other Trees more useful, and in great plenty. From Tree and Catter one they do gather Cotton: another yields them Capec, a kind of Cotton-country. wool extreamly fine, and so short that 'tis impossible to spin it, to them it serves

From certain Trees they extract several Oyls which they mix in Ciments, to or Gums.

Trom Certain Trees they extract levelar Oyls whiter, and or Gums.

Fronder Oyls render them more binding. A wall that is plaifter'd therewith, is whiter, and bears as good a Polifh as Marble ; and a Bafon made of one of thefe Ciments preferves water better then glazed Earth.

They do likewife make better Morphysical Control of the control tar than our's: by reason that in the water which they use, they do boyl a certain bark, the skins of Oxen, or Buffalo's, and Sugar. A kind of Trees very common in their Woods yeilds that Gum, which composes the body of that excellent Varnish, which we see on several works of Japan, and China. The Partuguez do call this Gum Cherram, a word perhaps derived from Cherra, which fignifies a Perfume, although this Gum has not any Odor of it felf. The Siamefes do not well know how to put it in use. At Siam I saw a Tunquinese of this Trade, but he wrought nothing well for want perhaps of a certain Oil which was needfay to mix with the Cheyram, and which he supplied, as he could, by a rnuch worfe. I would have brought him to France, had he not been afraid to pass the Sea, as he had promifed me at first. In a word, some say that the best way to render the Varnish more curious, is to lay on the more coverings, but this is to make it much dearer. The Relations of China do also declare, that there are two different Materials for the Varnish, and that the one is much better than the other. The Cheyram is proved by a drop thereof pour d into Water; and if this drop links to the bottom without separating, the Cheyram is good.

Trees whole
Bark ferves to The Stamefer make Paper of old Cotton rags, and likewife of the bark of a make Paper.
Tree named Ton coi, which they pound as they do the old rags: but these Papers have a great deal less Equality, Body and Whiteness than ours. The Stameses cease not to write thereon with Chinal Ink. Yet most frequently they black them, which renders them smoother, and gives them a greater body; and them, which renders them innotitier, and gives them a greater 1000y's and then they write thereon with a kind of Crayon, which is made only of a clayish Earth dry'd in the Sun. Their Books are not bound, and consist only in a very long Leaf, which they roll not up as our Ancestors did theirs, but which they fold in and out like a Fan: and the way which the Lines are wrote, is accord-ing to the length of the folds, and not according to their breadth. Besides this they write with a Styletto and the Leaves of a Tree resembling the Palm: This Tree they call Tan, and these Leaves Bailan; they cut them in a very long and narrow Square, and on these Tables are writ the Tables and Prayers, which the Talapoins do fing in their Temples.

The Siameles have also Timber proper for the building of Ships, and furnishing them with Masts: But they having no Hemp, their Cordages are made of

of the Coco is three fingers thick, and its Fibers may be twifted into a Cord.

In fine, the Siameles have Timber proper for building of Houses, for Wood for o Wainfootting and Carving; they have both light and very heavy Wood, some therutes. easie to cleave, and others which cleaveth not, what Wedges soever it receives. This last is called by the Europeans, Wood-Mary, and is better than any to make the Ribs of Ships. That which is heavy and tough is called Iron-wood, very well known in our Islands of America, and it is affirmed in process of time it eats the Iron. They have a Wood which for its Lightness and Colour some conceive to be Fur, but it takes the Carver's Chifel in so many different ways without splitting that I question whether we have any like it in Europe.

But above all, the Siameses have Trees so high and so strait, that one alone is Trees for Ba-Fathom long. They hollow the Tree, and then by the heat of the Fire enlarge the Capacity thereof; which done, they raife the fides with an edge, that is to fay with a Board of the same length: And in fine, at both the ends they fasten a Prow and a Poop very high, and a little bending out, frequently adorned with sculpture and gilding, and with some pieces of Mother of Pearl.

Nevertheless amongst so many different sorts of Wood, they have none of They have

They have not been able to raife any Mulberry Trees, and for this reason they Mood. They have not been able to raife any Mulberry Trees, and for this reason they wood. They have no Silk-worms. No Flax also grows amongst them, nor in any other place of India, or at least it is not in any efteem. The Cotton which they have in abundance is, they say, more agreeable and more healthful to them; by reason that Cotton which they have not said the heave more with finance and more than the same and they could be a same as a same and they could be a same and they could be a same as a same and they could be a same as a same and they could be a same as a same as a same a same as a same as a same a same as a same as a same a same as a same a same a same as a same a sa that Cotton-cloth grows not cold by being wet with fweat, and confequently occasions not the carching cold, as Linnen does.

They have the Cinnamon Tree, inferior indeed to that of the Island of Cer. The Cinnamon Tree, inferior indeed to that of the Island of Cer. They have the Cinnamon Tree, interior indeed to that or the mand or Co. mon and Fir lon, but better than any other; they have the Sapan, and other Woods proper Tree. for Dying.

They have also the Wood Aquila or Aloes, not so good indeed as the Calam. Wood Aquila ba of Cochinchina, but better than the Wood Aquila of any other Country. This Wood is found only in pieces, by reason they are only certain rotten places in Trees of a certain kind. And every Tree of this fame Species has it not, and those which have, have them not all in the same place; so that it requires a tedious search in the Wood. Twas formerly very dear at Paris, but is at present to be had at a reasonable rate.

### CHAP. V.

### Concerning the Mines of Siam.

NO Country has a greater Reputation of being rich in Mines than the Coun-The Reputatry of Siam, and the great quantity of Idols and other caft works which tion of the are there feen, evinces that they have been better cultivated there in former Mines of Siam. times, than now they are. Tris believed likewife that they thence extracted that great quantity of Gold, wherewith their Superfittion has adorned not only their almost innumerable Idols, but the Waincot and Roofs of their Temples. They do likewife daily discover Pits anciently dug, and the remains of a great many Furgers, which are thought to have been abandond during the ancient many Furnaces, which are thought to have been abandon'd during the ancient

Wars of Pegu. Nevertheless the King that now reigns has not been able to find any Vein of The State of Gold or Silver, that is worth the pains that he has therein employed; although he the Mines at hath applied unto this work fome Europeans, and amongft the rest a Spaniard that Present came from Mexico, who found, if not a great fortune, at least his Subsistence for twenty years, even to his Death, by statering the Avaice of this Prince, with the imaginary promises of infinite Treasures. After having dug and mind in surgest leases, they light only on some years Counce Misers and interest. in feveral places, they light only on some very mean Copper Mines, tho inter-

In

<sup>\*</sup> Brou is a the Brou \* of Coco, and their Sails are Mats of great Rushes: These Equipments green Bark or do not countervail ours by much; but their Sails have this advantage, that fponskin which is raneoully supporting themselves, they do better receive the Wind, when it is on the Coco, like as on our near it; that is to say when it blows as much against us as possibly it can, with Nuts but that out being contrary to the Course.

mixt with a little Gold and Silver: Five hundred weight of Ore scarce yielding an Ounce of Metal; neither understood they how to make the separation of

Tambac.

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But the King of Siam, to render his mixture more precious, caus'd some Gold to be added thereunto: and this is what they call Tambae. 'Tis faid that the Mines of the Isle of Borneo do naturally produce it very Rich and the scarceness augments the price thereof, as it formerly increased that of the famous Corinthian Brass; but certainly that which makes the true value thereof amongst the Siameses, is the quantity of Gold wherewith it is thought to be mixed. When their Avarice creates delires it is for the Gold, and not for the Tambac; and we have feen that when the King of Siam has ordered Crucifixes to be made to present to the Christians, the most noble and smallest part, which is the Christ, has been of Gold, the Groß alone of Tambae. Vincent le Blanc relates, that the Pegains have a mixture of Lead and Copper, which he calls fometimes Ganze, and fometimes Ganza, and of which he reports that they make Statues, and a small Money which is not frampt with the Kings Coin, but which every one has a right to make.

Mr. Vincent the From Siam we brought back Mr. Vincent the Phylitian. He departed from Physician re France, to go into Perfia, with the late Bilhop of Babylon, and the report of the tained by the arrival of the King's first Ships at Siam, made him to go thither as well out of a King of stam defire to travel, as in hopes of procuring his return into France. He understood to work in his Mathematicks and Chymistry, and the King of Stam retained him some time at Mines.

the work in his Mines.

What he re- He informed me that he rectified the labours of the Siamese in some things, lates concern- fo that they obtain a little more profit than they did. He show'd them a Mine ing the Mines of very good Steel at the top of a Mountain, which had been already discovered, and which they perceived not. He discovered to them one of Crystal, one of Antimony, one of Emeril, and some others, with a Quarry of white Marble. Besides this, he found out a Gold Mine, which to him appear'd very rich, as far as he was able to judge without trying it; but he has not showed it them. Several Siameses, most Talapoins, came secretly to consult him about the Art of purifying and separating Metals, and brought him divers specimens of very rich Ore. From some he extracted a very good quantity of fine Silver, and from others, the mixture of several Metals.

As for Tin and Lead, the Siameses have long since improved it from very plentiful Mines, and though not very skilful, yet they cease not to get a confiderable revenue by it. This Tin, or Calin, as the *Portaguese* report, is fold through all *India*; Tis foft and basely purified, and a specimen thereof is seen in the common Tea Boxes or Cannisters, which come from this Country. But to render it harder and whiter, like that of the finest Tea Boxes, they mix it with Cadmia, a fort of Mineral eafily reducible to powder, which being melted with the Copper, makes it yellow: but it renders both these Metals more brittle: And its this white Tin which they call Tontinague. This is what Mr. Vincent relates on the subject of the Mines of Siam.

In the Neighbourhood of the City of Longo they have a Mountain of Load-

Mines of

stone. They have another also near Jonsalam, a City seated in an Island of the Gulph of Bengal, which is not above the distance of a Mans voice from the Coast of Stam: but the Loadstone which is dug at forfalam loses its vertue in three or four Months; I know not whether it is not the same in that of Lonvo.

Precious Stones.

In their Mountains they find very curious Agate, and Mr. Vincent inform'd me that he has feen, in the hands of the Talapoins, who fecretly busie themselves in these researches, some samples or pieces of Saphires and Diamonds that came out of the Mine. He affured me also that some particular Persons having found fome Diamonds, and given them to the King's Officers, were retired to Pegu by by reason they had not receiv'd any recompence,

Sicel.

I have already faid that the City of Campeng-pet is farmous for Mines of excellent Steel. The Inhabitants of the Country do forge Arms thereof after their fathion, as Sabres, Poniards, and Knives. The Knife which they call Pen is used by all, and is not look'd upon as Arms, although it may ferve upon occasion: The blade thereof is three or four Fingers broad, and about a Foot long. The King gives the Sabre and the Poniard. They wear the Poniard on the left fide, hanging a little before. The Portuguese do call it Christ, a word corrupted from Crid, which the Stameses use. This word is borrow'd from the Malayan Language, which is famous throughout the East, and the Crids which are made at Achim in the Isle of Sumatra, do pass for the best of all. As for the Sabre, a Slave always carries it before his Master on his right shoulder, as we carry the Musquet on the left.

They have Iron Mines which they know how to melt, and some have inform'd Iron me that they have but little thereof; besides, they are bad Forge-men. For their Gallies they have only wooden Anchors, and to the end that these Anchors may sink to the bottom, they fasten stones unto them. They have neither Pins, nor Needles, nor Nails, nor Chifels, nor Saws. They use not a Nail in building their Houses, altho' they be all of Wood. Every one makes Pins of Barbeit come a court Anchor and I have for the stones. of Bambou, even as our Ancestors us'd Thorns for this purpose. To them there comes Padlocks from Japan, some of Iron, which are good; and others

of Copper, which are very naught.

They do make very bad Gunpowder. The defect, they fay, proceeds from Salt-Petre the Salt-Petre which they gather from their Rocks, where it is made of the dung and Powder. of Batts, Animals which are exceeding large and very plentiful throughout India. But whether this Salt-Petre be good or bad, the King of Siam fells a great deal

of it to Strangers.

Part I.

Having described the natural Riches of the Mountains and Forests of Siam, 'twould be proper in this place to speak of the Elephants, Rhinoceros, Tygers, and all other favage Beafts wherewith they are stored : yet seeing this matter has been sufficiently explicated by a great many others, I shall omit it, to pass on to the inhabited and cultivated Lands.

### CHAP. VI.

### Of the cultivated Lands, and their Fertility.

They are not Stony, it being very difficult to find a Flint; and this makes The Country me to believe of the Country of Sign. what forms have a sign of the Country of Sign. They are not 30013, at using very since to the state of t there is a Bank of Owfe, which, in the Sea phrafe, is call'd the Bar, and which prohibits entrance to great Ships. Tis probable that it will increase itself by little and little, and will in time make a new Shore to the firm Land.

Tis therefore this Mud descending from the Mountains, that is the real The annual cause of the Fertility of Siam, where ever the Inundation extends itself. In fattens the other, and especially on the highest places, all is dry'd and burnt with the Sun, Lands of sin in a little time after the Rains. Under the Torrid Zone, and likewise in Spain, am. whose Climate is more temperate, if the Lands are naturally fertile, (as for Example, between Murcia and Carthagena, where the Seed yields fometimes an hundred fold ) they are nevertheless fo subject to Drought, Insects, and other Inconveniences, that it frequently happens that they are deprived of the whole Harveft feveral years rogether: And its this which betides all the Countries of India which are not subject to be overflowed, and which besides the barrenness of the Soil, do suffer the ravages of contagious and pestilential Distempers which fucceed it. But the annual Inundation gives to Siam the affurance and plenty of the Rice Harvest, and renders this Kingdom the Nourisher of several others.

Besides the Inundations fatning the Land, it destroys the Insects; altho' it It destroys the always leaves a great many, which extremely incommode. Nature instructs all Insects. the Animals of Siam to avoid the Inundation. The Birds which perch not in

our Countries, as Partridges and Pigeons, do all perch in that. The Pifmires doubly prudent, do here make their Nefts and Magazines on Trees.

White Ants

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There are white Ants, which, amongst other ravages which they make . do pierce Books through and through. The Missionaries are oblig'd to preserve theirs, by varnishing them over the cover and edges with a little Chegram, which hinders them not from opening. After this precaution, the Ants have no more power to bite, and the Books are more agreeable, by reason that this Gum being mixt with nothing that colours it, has the fame luftre as the Glaffes wherewith we cover Pictures in Miniature. This would be no dear nor difficult Experiment, to try whether the Cheyram would not defend the wood of our Beds against Buggs Tis this same Cherram, which being spread upon Canvas, makes it appear like Horn. Therewith they us'd to environ the great Cresses lights, which some reported to be of Horn, and all of a piece. Sometimes also those little Cups varnish'd with red, which come to us from Japan, and whose lightness aftonishes us, do consist only of a double Cloth put into the form of a Cup, and cover'd over with this Gum mixt with a colour, which we call Lacca, or Chinese Varnish, as I have already declar'd: these Cups last not long, when too hot Liquors are put therein.

To return to the Infects, which we have begun occasionally to speak of, the

The Maringouins.

Marin-gonins are of the same Nature as our Gnats; but the heat of the Climat gives them so much strength, that shamois Stockings defend not our Legs against their Stings. Nevertheless it seems possible to know how to deal with them; for the Natives of the Country, and the Europeans that have inhabited there for feveral years, were not so marked with them as we were.

The Millepede or Palmer is known at Siam, as in the Isles of America. This little Reptile is so called, because it has a great number of feet along its body, all very short in proportion to its length, which is about five or fix Inches. What it has most fingular (besides the scales in form of rings, which cover its body, and which infert themselves one into the other in its motions ) is, that it pinches equally with its head and tail, but its Stings, tho' painful, are not mortal. A French Man of that Crew which went to Siam with us, and whom we left there in perfect health, fuffer'd himself to be stung in his Bed above a quarter of an hour, without daring to lay hold on the Worm to relieve himself. The Siameses report, that the Millepede has two heads at the extremities of its body, and that it guides itself fix months in the year with the one, and fix months with the other.

But their History of Animals must not easily be credited, they understand rance of the not Bodies better than Souls; and in all matters their inclination is to imagine Wonders, and persuade themselves so much the more easily to believe them, as things Natur they are more incredible. What they report of a fort of Lizard named Tocal they are more incredible, and proceeds from an Ignorance and Credulity very fingular. They imagine that this Animal feeling his Liver grow too big, makes the Cry which has impos'd on him the name of Toc-quay, to call another Infect to its fuccor; and that this other Infect entering into his Body at his mouth, eats the overplus of the Liver, and after this repast retires out of the Toc-quay's body, by the same way that he enter'd therein-

Shining Flyes. The thining Flyes, like Locusts, have four wings, which do all appear when the Fly takes a flight; but the two thinnest of them are concealed under the strongest when the Fly is at repose. We hardly saw thee little Animals, by reason that the rainy time was past when we landed. The North-winds, which begin when the Rains cease, either kill them, or drive them all away. They have some light in their Eyes, but their greatest splendor proceeds from under their wings, and glitters only in the Air, when the wings are display'd. What some report therefore is not true, that they might be us'd in the Night instead of Candles; for the' they had light enough, what method could be contrived to make them always flie, and keep them at a due distance to illuminate? But thus much may suffice to be spoken concerning the Insects of Siam; they would afford matter for large Volumes to know them all.

I shall say only that there are not fewer in the River and Gulph, than on the Infects in the Land; and that in the River there are some very dangerous, which is the reason waters. that the rich Men do bathe themselves only in houses of Bambou.

#### CHAP. VII.

### Of the Grain of Siam.

 ${\bf R}^{ICE}$  is the principal Harvest of the Siameles, and their best Nourishment, Ricci it refreshes and fattens: And we found our Ship's Crew express some regret, when after a three months allowance thereof, they were return'd to Biskets and yet the Bisket was very good, and well kept.

The Siameles know by experience how to measure the water, fire and time ne-The way of

ceffary to the Rice, without burfting the Grain, and so it serves them for Bread, boiling it in Not that they mix it with all their other Food as we do Bread 3, when they ear pure waters Flesh or Fish for example, they eat the one and the other without Rice; and when they eat Rice, they eat it feparately. They squeeze it a little between the ends of their Fingers to reduce it into a Paste, and so they put it into their mouth, as our Poor do eat Pottage. The Chineles do never touch any meat but with two small Sticks squard at the end, which do serve them instead of a Fork. They hold to their lower Lip a finall Porcelane or China Cup, wherein is their portion of Rice; and holding it fleady with their left hand, they strike the Rice into their mouth with the two Sticks which they hold in their right

The Levantines, or Eastern People, do sometimes boil Rice with Flesh and Or in milk. Pepper, and then put some Saffron thereunto, and this Dish they call Pilan. This is not the practice of the Siameses: but generally they boil the Rice in clear water, as I have faid; and fometimes they boil it with milk, as we do on fasting

At Siam, in the Lands high enough to avoid the Inundation, there grows Wheat Wheat : they water them either with watering Pots like those in our Gardens, or by overflowing it with the Rain-water, which they keep in Cifferns much higher than thefe Lands. But either by realon of the Care or Expence, or that the Rice fuffices for common use, the King of Siam only has Wheat; and perhaps more out of Curiofity, than a real Gulto. They call it Kaon Possali, the Carlot of and the word Kaon fimply fignifieth Rice. Now these terms being neither Arabian, nor Turkijb, nor Perfian, I doubt of what was told me, that Wheat was brought to Siam by the Moors. The French which are fetled there, do import Meal from Surrat; altho' near Siam there is a Windmil to grind Corn, and another near Louvo.

In a word, the Bread which the King of Siam gave us, was fo dry, that the Wheaten Rice boil d in pure water, how infipid foever, was more agreeable to me. I left Bread coodry wonder therefore at what the Relations of China report, that the Soveraign of at Siam-this great Kingdom, altho he has Bread, does rather prefer Rice: yet fome Europeans affur'd me, that the wheaten Bread of Siam is good, and that the driness of ours must proceed from a little Rice flower, which is doubtless mixt with the Wheat, for fear perhaps left the Bread should fail.

At Siam I have feen Peafe different from ours. The Siamefes, like us, do Other Grain. make more than one Crop, but they make only one in a year upon the same Land: not that the Soil was not good enough, in my opinion, to yield two Crops in a year, as some have related concerning some other Cantons of India, if the Inundation did not laft folong. They have Turky-Wheat only in their Gardens. They do boil or parch the whole Ear thereof, without unbusking or breaking off the Grains, and they eat the infide.

CHAP

### CHAP. VIII.

Of the Husbandry, and the difference of the Seasons.

Oxen and Buffalo's employ'd in Husbandry.

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They equally employ Oxen and Buffalo's in Husbandry. They guide them with a Rope out through a bale which they make. with a Rope put through a hole which they make in the Cartilage that feparates the Nostrils: And to the end that the Rope may not flip when they draw it, they do tie a knot on each fide. This fame Cord runs also through a

The Siamefe Plough.

hole, which is at the end of the draught Tree of their Plough.

The Plough of the Stamefer is plain, and without Wheels. It confifts in a long Beam which is the Rudder, in another crooked plece which is the Handle, and in another shorter and stronger piece, fastned almost at Right Angles underneath at the end of the Handle; and tis this Third which bears the share. They fasten not these four pieces with Nails, but with leather Thongs.

How they cleanse the

To unhusk the Rice, they employ large Beafts; when it is trodden out, they let it fall by little and little from a very high place, to the end that the wind may Rice from the carry away the Chaff. And because the Rice has an hard Skin like Spelt, a fort of Corn very common in Flanders, and other places, they bruife it in a great wooden Mortar, with a Peffle of the fame; or in a Hand-mill, all the pieces of which are also of Wood. They knew not how to describe them to me.

Three Seafons They know only three Seafons, the Winter, which they call Nanaou, the Beginonly, and two ning of Cold; the Little Summer, which they call Naron, the Beginning of Heat; forts of years, and the Great Summer, which they call Naron-yai, the Beginning of Great Heat; and which strips the Trees of their Leaves, as the Cold does ours. They have two years together confifting of twelve months, and a third of thirteen.

The names of

They have no word to express Week; but, like us, they call the seven days by the Planets, and their days correspond to ours. I mean, that when it is Monday here, it is Monday there, and so of the rest; but the day begins about six hours fooner there, than here. Amongst the Names they have given to the Planets, that of Mercury is Pout, a Persian word, which signifies an Idol; from whence comes Pour Gheda, a Temple of false Gods; and Pagode comes from They begin their year on the first day of the Moon in November or December.

From whence

they begin according to certain Rules; and they do not always denote the years by their number, but by the names they give them; for they make use of a Cycle of fixty years, like the other Eastern Nations.

The Cycle of A Sexagenary Cycle is a Revolution of fixty years, as a week is a Revolution of feven days; and they have names for the years of the Cycle, as we have for the days of the week. Tis true, I have not been able to discover that they have more than twelve different names, which they repeat five times in every Cycle to arrive at the number of fixty, and in my opinion with fome additions which do make the differences thereof. They will date therefore, for instance, from the year of the Pigg, or of the Great Serpent, which amongst them are the names of the year; and they will not always denote what year of their Ara this shall be, as we sometimes date a Letter upon one of the days of the week to which we fet down the name, without noting what number it is in the month. At the end of this Relation, I will give you the twelve names of the years in Siamese, with those of the seven days of the week.

Their months. Their months are vulgarly efteem'd to confift of thirty days. I fay vulgarly, because that in Astronomical exactness there may be some month longer or shorter; but the Siameses do observe it otherwise than we, in that we give names to the months, and they do not. They call them by their order, the first month, second month, &c.

The two first Months, which answer almost to our Months of December and The diffinttion of their Fannars, do make their whole Winter; the third, fourth, and fifth, do belong to their little Summer, the feven others to their great Summer. Thus they have Winter at the fame time as we; by reason they lye to the North line like us. But their greatest Winter is at least as hot as our greatest Summer. After the time of the Inundation they cover the Plants in their Gardens from the heats of the Sun, as we do sometimes cover ours from the cold of the Night or Winter: But as to their Persons, the diminution of the heat appears unto them a very incommodious cold. The little Summer is their Spring, and they utterly ignore the Autumn. They only reckon a great Summer; although it feems that they might reckon two after the manner of the Ancients, who have written of India, feeing that they have the Sun perpendicularly over their heads twice a year; once when it comes from the Line to the Tropick of Cancer, and another time when it returns from the Tropick of Cancer towards the Line.

Their Winter is dry, and their Summer rainy. The Torrid Zone would doubt. Of the Mozaless be uninhabitable, as the Ancients have held, were it not for that marvellous footh. Providence which makes the Sun continually to draw the Clouds and Rains after it, and the Wind inceffantly to blow there from one of the Poles, when the Sun is toward the other. Thus at *Stam* in Winter, the Sun being in the middle of the Line, or towards the Antarctick Pole, the North-winds do conftantly prevail, and temper the Air very fentibly to refresh it. In Summer, when the Sun is on the North of the Line, and perpendicularly over the head of the siame[es, the South-winds which continually blow there, do cause continual Rains, or at least do make the weather always inclined to Rain; leaving most People in doubt whether this Season of Rains ought not to be called the Winter of Siam. 'Tis this conftant Rule of the Winds, which the Portuguese have called Mongaos, and we after them Monfoons (Motiones aeris, according to Ozorius and Maffeus.) And this is the reason that the Ships can hardly arrive at the Bar of Sign during the fix Months of the North-winds, and that they can hardly depart thenceduring the fix Months of the South-winds. At the end of this work I will give the order of the Winds and Tides in the Gulph of Siam, in favour of those that love to reason on Philosophical matters.

The Stameles do not give many forms to their Lands. They till them and The time of fowe them, when the Rains have fufficiently foftened them; and they gather their ploughing and harvest when the waters are retired, and sometimes when they are yet remaining on the ground, and they can go only by Boat. All the land that is over-flowed is good for Rice, and 'ris faid that the Ear always furmounts the waters; and that if they encrease a foot in twenty four hours, the Rice grows a foot also in twenty four hours: but though it be avery'd that this happens sometimes, I cannot without much difficulty believe it in so vast an Inundation: And I rather conceive that when the Inundation furmounts the Rice at any time, it

rots it.

Part I.

They gather Rice also in divers Cantons of the Kingdom which the Rains do Another fors not overflow; and this is more fubftantial, better relifit, and keeps longer of Rice. When it has grown long enough in the Land where it was fown, it is transplanted into another, which is prepared after this manner. They overflow it, as we do the Salt Marthes, until it be throughly foft; and for this purpose it is neceffary to have high Cifterns, or rather to keep the Rain-water in the Field it felf by little Banks made all round. Then they let the water go to feed the Land, level it, and in fine, transplant the Rice-Roots one after the other, by thrusting them in with the Thumb.

I am greatly inclin'd to believe, that the Ancient Siamefes lived only upon The original Fruits and Filh, as still do several people of the Coasts of Africk; and that in of Agriculture process of time Husbandry has been taught them by the Chinefes. We read in with the Sister Husbandry of China that twas anciently the King himself, that annually first fet his hand to the Plough in this great Kingdom, and that of the Crop which his Labour yielded him, he made the Bread for the Sacrifices. The Lawful King of Tonquin and Cochinchina together, who is called the Buado's, likewife observe this Custom of first breaking up the Lands every year; and of all the Royal Functions, this is almost the only one remaining to him. The most important are exercised by two Hereditary Governors, the one of Tonquin, and the other of Cochinchina, who wage war, and who are the true Soveraigns salthough

they profess to acknowledge the Bua, which is at Tonquin, for their Soveraign.

The Ceremon The King of Stam did formerly also fet his hand to the Plough, on a certain ny of the sia- day of the year: For about an Age fince, and upon some superstitious Observameles touching tion of a bad Omen, he labours no more; but leaves this Ceremony to an imaginary King, which is purposely created every year : yet they will not permit him to bear the Title of King, but that of Ocya-Kon, or Ocya of the Rice. He is mounted upon an Ox, and rides to the place where he must plough, attended with a great train of Officers that are obedient to him. This Masquerade for one day gets him wherewithal to live on the whole year. And by the fame fupersition has deterred the Kings themselves. It is look'd upon as ominous and unlucky to the person. I suspect therefore that this custom of causing the lands to be ploughed by the Prince, came from China, to Tonquin, and Siam,

with the Art of Husbandry. It is Politick It may perhaps have been invented only to gain credit to Husbandry, by the and Superfile example of Kings themselves; but it is intermixt with a great many superfittious both toors, to supplicate the good and evil Spirits, whom they think able to help or hurt the goods of the Earth. Amongst other things, the Ocya-Kam offers them a Sacrifice, in the open field, of an heap of Rice-sheaves, whereunto he sets fire with his own hand.

### CHAP. IX:

Of the Gardens of the Siamcses, and occasionally of their

Their Pulse

THE Stamefer are not less addicted to the manuring of Gardens, than to the ploughing of Arable Lands. They have Pulse and Roots, but for the The Potatoe, most part different from ours. Amongst the Roots the Potatoe deserves a parcular mention. It is of the form and fize almost of a Parlenep, and the infide thereof is sometimes white, sometimes red, sometimes purple; but I never faw any but the first fort : Being roasted under the Ashes, it eats like the Chesnut. The Isles of America made it known to us; it there frequently supplies, as some report, the place of Bread. At Siam I have feen Chibbels, and no Onions, Garlick, Turneps, Cucumbers, Citruls, Water-melons, Parsley, Bann, Sorrel. They have no true Melon, nor Strawberries, nor Rafpberries, nor Artichoaks, but a great deal of Asparagus, of which they do not eat. They have neither Sallory, nor Beets, nor Colewors, nor Colefore, nor Turneys, nor Parfeneys, nor Carrets, nor Leels, nor Lettuce, nor Chervil, nor most of the Herbs whereof we compose our Sallads. Yet the Dutch have most of all these Plants at Batavia, which is a fign that the Soil of Siam would be proper thereunto. It bears large Mushromes, but few and ill tafted. It yields no Truffles, not so much as that insipid and scentless kind, which the Spaniards do call Criadillas de tierra, and which they put into their

Cucnmbers, Chibbols, Ciarlick, Radishes.

Flowers.

The Siamefes do eat Cucumbers raw, as they do throughout the East, and also in Spain; and it is not impossible but their Cucumbers may be more wholsom than ours, feeing that Vinegar doth not harden them: They look upon them, and call them a kind of Water Melons. Mr. Vincent inform'd me that a Persian will eat 36 pound weight of Melons, or Cucumbers, at the beginning of the fea-fon of thefe Fruits to purge himfelf. The Chibbols, Garlick, and Radilber have a fweeter taste at Siam, than in this Country. These fort of Plants do lose their Rankness by the great Heat: And I easily believe what those who have experienc'd it have affured me, that nothing is more pleasant than the Onions of Agprt, which the Israelites so exceedingly regretted.

I have seen a great many Tuberoses in the Gardens of Siam, and no Roses, nor Gillystoners; but it is faid there are plenty of Gillystowers, and few Rofes, and that these Flowers have less scent here than in Europe; to that the Roses have hardly any. The Jasmine is likewise so rare, that its said, there are none but at the king's House. We were presented with two or three Flowers as a wonder. They have a great many Amaramhus, and Tricolors. Except these most of the Flowers and Plants which adorn our Gardens, are unknown to them : But in their stead they have others which are peculiar to them, and which are very agreeable for their Beauty and Odor I have remark'd of some that they finell only in the Night, by reason that the heat of the day diffipates all their Spirits. Our Flowers have most scent about the Evening, and we have some, but few, that

Part I.

of the Kingdom of SIAM.

Whatever has not naturally a great deal of taste and finell, cannot keep them Why there is finell only at Night. in Countries extreamly hot. Thus though there be Grapes in Perfin, and at Su- no Mucadime rate, yet there can be no Mufcadine Grapes, what care foever is therein employ. Farges in Perfut, and at 3th no Mufcadine Grapes, what care foever is therein employ. Farges in Country of the Plants, which are transported thither from Europe, do prefently sugart. degenerate, and yield the fectond year ordinary Grapes only.

But at Sign where the Climate is much bester above 2019.

But at Siam, where the Climate is much hotter, there are no good Grapes. Nor Grapes The few Vines which are planted at Lorso, in the Kings Garden, produce only at stam. fome bad Grapes, which are finall and of a bitter tafte.

Pure Water is their ordinary Drink; they love only to drink it perfum'd, Pure water whereas to our Palate Water which has no finell, is the beft. As the Siamefer the ordinary go not to draw it at the Springs, which are doubtlest too remote, it is wholesom drink of the only when it has been fetled more or fewer days, according as the Inundation is siamofer. higher or lower, or wholly run out: For when the Waters retire, and they are filled with Mud, and perhaps with the ill Juices which they take from the Earth, or when the River is re-entred into its Channel fufficiently muddy, they are more corrofive, do caufe Difenteries and Lasks, and cannot be drunk without danger, till they have let them stand in great Jarsor Pitchers, the space of three Merker are Morely.

At Lonvo the Waters are much more unwholfome than at Siam; by reason The Waters that the whole River flows not thitther, but only an Arm, which has been of Louve and turned thither, which runs always decreafing after the Rains, and at laft leaves of the Positioner its Channel dry. The King of Siam drinks water from a great Ciftern made in the Fields, on which is kept a continual Watch. Besides that this Prince has a little house called Thee Possson, or Rich Sea, about a League from Louvo. It is seated on the brink of certain Low-lands, about two or three Leagues in extent, which receive the Rain-waters and preferve them. This little Sea is of an irregular figure, its Shores are neither handlom nor even; but its Waters are whole-fome, by reason they are deep and settled, and I have also heard that the King of Siam drinks thereof.

For pleasure and conversation the Siameses do take Tea, I mean the Siameses of Tea, the City of Siam. For the use of Tea is unknown in all the other places of the Kingdom. But at Stam the Custom is throughly fetled, and 'tis amongst them a necessary Civility to present Tea to all that visit them. They call it Teha, as do the Chinefer, and have not two Terms, the one for what we call Tea, and the other for what we call Cha, or Flower of Tea. Tis certain that it is not a Flower: But to affert whether they are the budding Leaves, and confequently the tendereft, or the higheft, and confequently the less nourished, or the point of the Leaves, which have been boiled at China, or a kind of particular Tes; is what I cannot determine, by reason that various Accounts have been given me thereof. The Siameles do reckon three forts of Tea, the Tobaboui or Boni Tea, which is Three forts of

reddish, which some fay fattens and is astringent; 'tis look'd upon at Siam as a Tea. Remedy for the Flux. The Somio Tea, which on the contrary purges gently. And the third fort of Tea, which has no particular Name, that I know, and which neither loofens nor binds.

The Chinefes and all the Orientals, use Tea as a Remedy against the Head-ach : Tea is a sudo But then they make it ftronger, and after having drunk five or fix Cups, they rinek lye down in their bed, cover themselves up, and fivear. It is not very difficult, in fuch hot Climates, for Sudorificks to operate, and they are looked upon there almost as general Remedies. They

The manner

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They prepare the Tea in this manner. They have Copper Pots tinn'd on the infide, wherein they boil the Water; and it boils in an inftant, by reason the Copper thereof is very thin. This Copper comes from Japan, if my Memory fails me not; and tis so easie to work, that I question whether we have any so pliant in Europe. These Pots are called Boulis; and on the other hand they have Boulis of red Earth, which is without tafte, tho without Varnish. They first rince the Earthen Bouli with boiling water to heat it, then they put in as much Tea, as one can take up with the Finger and Thumb, and afterwards fill it with boiling water; and after having covered it, they still pour boiling water on the outside, they stop not the Spout as we do. When the Tea is sufficiently infufed, that is to say when the Leaves are precipitated, they pour the Liquor into China dishes; which at first they fill only half, to the end that if it appear too frong or too deep, they may temper it, by pouring in pure water, which they fill keep boiling in the Copper Bonly. Nevertheles if they will fill drink, they do again fill the Earthen Bouly with this boiling water, and fo they may do feveral times without adding any more Tea, until they fee that the water receives no tincture. They put no Sugar into the Dilhes, by reason they have none refin'd which is not candy, and the candy melts too flowly. They do therefore take a little in their mouth, which they champ as they drink their Tea. When they would have no more Tea, they turn the Cup down on the Saucer 5 because that itis the greatest incivility among them to refuse any thing, and that if they leave the Cup standing, they fail not to serve them again with Tea, which they are oblig'd to receive. But they forbear to fill the Dish, unless they would testifie to him unto whom they present it full, that 'tis, as some say, for once, and that it is not expected that he ever come again to the House.

The most experienced do say that the Water cannot be too clear for Tea, that ter necessary
for Tca.

Cistern-water is the best as being the most pure, and that the finest Tes
in the world becomes bad in water, which is not excellent.

Whether it is In a word, if the Chineses drink Tea so hot, 'tis not perhaps that they have hot.

The Word, if the Chingles that I a word, if the Chingles that I a word, if the Chingles that I a word, if the Chingles that I are that the found it either more wholefom or more pleafant after this manner; for they drink all forts of Liquor at the fame degree of heat, unless the Tartars have now taught them, as it is faid, to drink Ice. 'Tis true that the infusion of Tea is perform'd quicker in hot water than cold; but I have drunk with pleafure what I had infused cold for above a day.

The Siameses adhere not to Tea: they freely drink Wine, when they have it; altho whatever inebriates is prohibited them by their Morality. The English and Dutch do sometimes bring it them from Schiras in Persia, or from Europe. Our Bourdeaux and Chors Wines came very found to Siam, altho they had twice passed the Line; and at our return the remainder of these Wines, was perhaps much stronger and better kept, than it would have been, had it continued always a shore. I say nothing concerning the Wines of China and Japan, which are only Beers exceedingly well mixt, but very pleasant. The China Wine, of which I have brought a bottle, would not keep to France, altho the Dutch Beer kept very well to the Indies.

Other Liquors, Tari and Neri.

The Siameles do likewise drink two forts of Liquors, which are called Tari and Neri, and which they extract from two forts of Trees called Palmites, from a name general to every Tree which has great Leaves, like the Palm tree. The manner of collecting this drink is, in the Evening to make an Incilion in the bark of the Tree, near the top of its Trunk, and to apply thereunto a Bottle as close as it is possible, luteing it with Clay, that the Air may not enter therein. The next Morning the Bottle is full, and this Bottle is generally a Pipe of great Bambon, to which the knot serves as a bottom. These two Liquors may also be collected in the day time, but it is faid that then they are eager, and are used as Vinegar. The Tari is drawn from a fort of wild Cocotier, or Coco-tree, and Neri from the Arequier, a fort of Tree which I shall presently speak of.

Aqua one preferred before defire what encreases them, they paffionately efteem Aqua Vitee, and the strongwhat they est more than the others. The Siameset do make it of Rice, and do frequently

CEP in what they does first make Beer, which they drink not;

but they convert it into Aqua Vita which they call Laon, and the Portuguese Arak, an Arabian word, which properly fignifies fiveat, and metaphorically effence, and by way of excellence Aqua Vita. Of the Rice Beer they likewise make Vi-

negar.

The English inhabiting at Siam do use a drink which they call Punch, and Punch, an Enwhich the Indians do find very delicious. They put half a pint of Brandy or A.

When the Indians do find very delicious. rak, to a pint of Limonade with Nutmeg and a little Sea Bisket toafted and broke, and beat it all together until the Liquors be well mixed. The French call this drink Boule Ponche, and Bonne Ponche, from the two English words, a

In a word, the Moors of Siam drink Coffee, which comes to them from Ara- Coffee and bia, and the Portuguese do drink Chocolate, when it comes to them from Manille, Chocolate.

the chief of the Phillipines, where it is brought from the Spanish West-Indies. The Siameses do esteem fruit better than all things; they eat all the day long Fruits. if they have it. But excepting Oranges, Citrons and Pomegranates, there is not at siam any of the fruits that we know. The Citrons which they call Macrons, are small, full of Juice and very sowre, and the skin very smooth. They appeared to me of a fingular quality, in that they are rotten on the infide, when their peel is found and entire. But they have moreover a kind of fowre, and no fweet Lemons, and on the contrary the Oranges and Pomegranates are all fweet; unless for sowre Oranges they would take the Pampelmonses, which have the taste and shape thereof, but which are as big as Melons, and have not much Juice. The Siamefes do with reason range them among the species of Oranges, and call them Soum-o, and Soum fignifies an Orange. Amongst the sweet Oranges the best have the Peel very green and rough; they call them Soum-kous, or Cryssal Oranges 5 not that they have any transparency, but because they appear to them in their kind, of the repute of Crystal, which they highly value. They give of these Soumkeon to their sick, and sell them, as 'tis said, at five fous a piece when the season is past; a considerable price in a Country where a man commonly lives for two Liards a day.

Now tho this fort of Oranges lasts not the whole year, yet there is always Certain Fruits now tho this fort of Oranges lates not the whole year, yet there is always at every Sea-one fort or other. There is also of that Fruit which the Europeans call Bananas, fon. or Indian-Figs, and the Siamefes Clonei, all the year. All the other Fruits continue only a time. Tis at Achem only at the North Point of the Isle of Sumatra, that Nature produces them all at every scalon. Those excellent Canes of one fingle Shoot or Joynt, between nine and ten foot long, do grow only at Achem; but Rice, which is their principal nourifliment, frequently fails them: and they do then dearly purchase it with the Gold, which they find so plentifully amongst them, that they contemn it without Philosophy.

I defignedly omit the Description of several Fruits, and refer it to the end of The difference this work. I will now only speak of the Areas, and shall say of the Indian of Stam from Fruits in general, that they have for the most part so strong a taste and sinell, that ours. one loves them not, till accustomed thereunto; and I think that then they do no hurt. By a contrary reason, our Fruits are at first insipid and without flavor, to him that is accustomed to the Indian Fruits.

him that is accultomed to the Inaian Pruits.

The Areca, which the Stameses do call Plon, is a kind of great Acorn, which Betel, yet wants that wooden Cup wherein our Acorn grows: When this Fruit is yet tender, it has at the center or heart a greyish substance, which is as fost as Pap. As it drys it waxes yellower and harder, and the foft substance it has at the heart grows hard too: It is always very bitter and favory. After having cut it into four parts with a Knife, they take a piece every time, and chew it with a Leaf refembling Ivy called Betel by the Europeans which are at the Indies, and Mak by the Siameses. They wrap it up to put it the more easily into the mouth, and do put on each a small quantity of Lime made of Cockle-shells, and redded by I know not what art. For this reason the Indians do always carry this fort of Lime in a very little China dish, for they put so little on every Leaf, that they consume not much in a day, altho they incessantly make use of the Areca, and the Betel. The Areca whilst tender wholly consumes in the Mouth, but the dry always leaves fome remains: The

Their effect.

The fenfible effect of this Acorn and this Leaf is to excite much spitting, if they care not to fwallow the Juice; but it is good to fpit out the two or three first Mouthfuls at least, to avoid swallowing the Lime. The other less sensible effects, but which are not doubted in the Indies, are to carry from the Gums, perhaps by reason of the Lime, whatever may prejudice them, and to fortifie the Stomach, either by reason of the Juice that is swallowed at pleasure, and which may have this quality, or by reason of the superfluous moistures which they discharge by spitting. Thus have I never sound any person at Siam with a stinking breath, which may be an effect of their natural Sobriety.

and Berel.

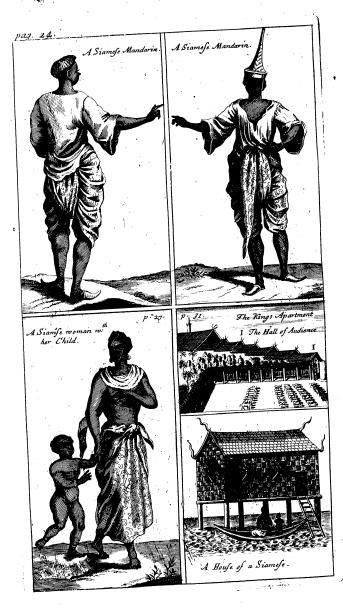
Informing preath, which may be an effect of their latent a solutery, the Now as the *Areca* and *Betet* do caufe a red fpittle independently on the red Lime which is mix'd therewith, fo they leave a Vermilion Tindture on the Lips and Teeth. It paffes over the Lips, but by little and little it thickens on the Teeth till they become black: So that perfors that delight in nearnefs, do blacken their Teeth, by reason that otherwise the spittle of the Areca and Betel, mix'd with the natural whiteness of the Teeth, causes an unpleasant effect, which is remarked in the common People. I shall transferrly declare, that the Vermi-lion Lips, which the Siameses saw in the Pictures of our Ladies which we had carried to this Country, made them to fay that we must needs have in France, better Betel than theirs.

How they To blacken their Teeth, they do thereon put some pieces of very sowre Leblacken their mon, which they hold on their Jaws or Lips for an hour, or more. They how they red, report that this softens the Teeth a little. They afterwards rub them with a den the Nails Juice, which proceeds either from a certain Root, or from the Coco, when they of their little are burnt, and so the operation is perform'd. Yet it pleases them sometimes It or relate that it continues three days, during which it is necessary, they say, to lye on their Belly and eat no solid Pood: But some have assured me that this is not true, and that it is sufficient to eat nothing hot for two or three days. I believe rather that their Teeth are too much fet on edge, to be able for forme time to eat any thing folid. It is necessary continually to renew this operation to make the effect thereof continue; for this Blackness flicks not fo strong to the Teeth, but that it may be rub'd off with a burnt Crust of Bread reduc'd to Powder. They love also to redden the Nails of their little Fingers, and for this end they scrape them, and then apply a certain Juice, which they extract from a little Rice bruifed in Citron Juice with some Leaves of a ree, which in every thing resembles the Pomegranate Tree, but bears no Fruit.

Of the Palmites in Bene- have no Branches, but great, long and broad Leaves, like the Palmitee; and they have their Leaves only at the top of the stalk, which is hollow. These forts of Trees do annually produce a new Shoot of Leaves, which fpring out of the middle of the Leaves of the preceeding year, which then fall off, and leave a mark round the Trunk; fo that by these marks which are so many knots, and which are close together, they can easily compute the Years, or Age of the Tree.

This is what I had to fay concerning the Extent and Fertility of the Kingdom of Siam, I will now discourse of the Manners of the Siameses in general 3 that is to fay of their Habit, Houses, Furniture, Table, Equipage, Diversions and Affairs.

PART II.



# PART II.

Of the Manners of the Siameses in general.

### CHAP. I.

Of the Habit and Meen of the Siamcses.

Hey hardly cloath themselves. Tacitus reports concerning the German They wear Infantry in his time, that it was either all naked, or cover d with light sew Cloath). Infantry in his time, that it was either all naked, or cover d with light sew Cloath). Coats; and even at this present there are some Savages in the Nor-nor so anoth then America, which go almost naked; which proves, in my opinion, by reason of that the simplicity of Manners, as well as the Heat, is the cause of the Naked-the sharps by that the simple state of the Savages. Tis not but that of sheir Mannes are almost insupportable to the Prench which arrive at Siam, and who ners. Know not how to forbeat acting and stirring; but it is unhealthful for them to uncloath themselves, by reason that the liquires of the excessively hot Air are not less dreadful, than those of the extreamly cold Air to which one is not accustomy; yet with this difference, that in very hot Climats 'tis sufficient for health, to cover the Stomach. The Spaniard do for this reason cover it with a Buffalo's Skin sour double; but the Siameses, whose Manners are plain in every thing, have chosen to habituate themselves from their Infancy, to an almost

entire Nuclty.

They go with their Feet naked, and their Head bare; and for Decency only The Pager; They go with their Reins and Thighs down to their Knees with a piece of painted the Habit of they begit their Reins and an half long, which the Portuguese do call Pague, from the Stameser. Cloth about two Ells and an half long, which the Portuguese do call Pague, from the Stameser. It is a filken Stuff, either plain, or embroider'd with a border of Gold and

The Mandarins, or Officers, do wear befides the Pagne, a Muslin Shirt which A Muslin is as their Vest. They pluck it off, and wrap it about their middle, when they Shirt ferves is as their Vest. They pluck it off, and wrap it about their middle, when they shirt ferves approach a Mandarin much higher than them in Dignity, to express unto him vest, their readines to go where he shall please to send them. And yet the Officers whom we saw at the Audiences of the King of Siam, remain'd cloath'd therewith as with their Habit of Ceremony; and by the same reason they always had their Bonnets high, and pointed on the Head. These Shirts have no Neckband, and are open before, they taking no care to saften them, to cover their Stomach. The Sleeves hang down almost to their Wrists, being about two Foot wide, but without being plaited above or below. Moreover, the Body thereof is so strain, that not slipping nor falling down over the Pagne, it sets in several wrinckles.

feveral wrinckles.

In Winter they do fometimes put over their (houlders a breadth of Stuff or A Scart a painted Linnen, either like a Mantle or a Scarf, the ends of which they wind very gainft the Cold.

nearly about their Exilib.

But the King of Stam wears a Veft of fome excellent Sattin brocaded, the How the Steves of which are very frait, and reach down to the Wrift; and as we ap-King wears Steves of which are very frait, and reach down to the Wrift; and as we ap-King wears parel our felves againft the Cold under our Waftcoats, he puts this Veft under Vefts of Silk: parel our felves againft the Cold under our Waftcoats, he puts this Veft under Vefts of Silk: the Shirt which I have described, and which he adorns with Lace, or European Point:

A fort of Mi. He fometimes also gives them another Vest or Garment of Scarlet, which is litary Veft. to be worn only in War, or at Hunting. This Garment reaches to the Knees, and has eight or ten Buttons before. The Sleeves thereof are wide, but without Ornament, and so short, that they touch not the Elbows.

The Red Co- Tis a general Cuftom at Siam, that the Prince, and all his Retinue, in the lour for War War or Hunting, be clouded in Red. Upon this account the Shirts which are and Hunting given to the Soldiers, are of Muslin dy'd Red, and on the days of Ceremony, as was that of the Entry of the King's Ambassadors, these Red Shirts were

given to the Siamefes, which they put under their Arms.

The high, and The white, high, and pointed Cap, which we faw on the Ambaffadors of Sian, pointed Cap. is a Coif of Ceremony, whereof the King of Sian and his Officers do equally make use; but the King of Siam's Cap is adorn'd with a Circle, or a Crown of precious Stones, and those of his Officers are embellish'd with divers Circles of Gold, Silver, or Vermilion gilt, to diffinguish their Dignities; or, have not any Ornament. The Officers wear them only before the King, or in their Tribunals, or in fome Ceremony. They fasten them with a Stay under their Chin. and never pull them off to falute any person.

The Moors have introduc'd amongst them the use of Babouches or Slippers, a kind of pointed Shoes without quarter or heel. They leave them at the Gates Babouches. of their own and others Houses, to avoid dirtying the places where they enter. But, where-ever their King, or any other person is, to whom they owe Respect, (as is for instance a Sancrat, or Superior of their Talapoins) they appear not with Slippers.

The Neatures Nothing is neater than the King of Siam's Palace, as well by reason of the of the Palace few persons admitted therein, as of the Precautions with which they of Siam.

Hats for Tra-They effeem of Hats for Travelling, and this Prince causes them to be made of all Colours in almost the same shape with his Bonnet; but very few persons velling. amongst the People vouchsafe to cover their Head against the heat of the Sun: and they do it but with a linnen Clout, and only when on the River, where the

Reflexion most incommodes.

Modesty in

The Habit of The difference of the Womens Habit from the Mens, is, that the Women the Women. fastning their Pagne length-wife round their Bodies, as likewife the Men do, they let it fall down broad-ways, and imitate a close Coat, which reaches down half-way their Leg; whereas the Men raife up their Pagne between their Thighs, by pulling through one of the ends, which they leave longer than the other, and which they tie to the Girdle behind, in which they do in some fort resemble our Breeches. The other end of the Pagne hangs before, and as they have no Pockets, they do frequently tye thereunto their Purse for the Betel, after the manner that we tye any thing in the corner of our Handkercheif. They do sometimes also wear two Pagnes one over the other, to the end that the uppermost may fit more neat.

A Nakednets Excepting the Pagne, the Women go all naked, for they have no Muslin almost entire. Shifts, only the Rich do constantly wear a Scarf. They do sometimes wrap the ends thereof about their Arms; but the best Air for them, is to put it fingly over their Bosom at the middle, to make smooth the wrinkles thereof, and to

let the two ends hang down behind over their Shoulders.

Nevertheless so great a Nudity renders them not immodest. On the contrathis Naked- ry, the Men and Women of this Country are the most scrupulous in the world of shewing the parts of their Body, which Custom obliges them to conceal. The Women who fat stooping in their Balors the day of the King's Ambassador's Entry, turn'd for the most part their Backs to the Show, and the most Curious hardly look'd over their Shoulder. 'Twas necessary to give the French Soldiers some Pagnes to wash in, to remove the Complaints which these People made, at feeing them go all naked into the River-

The Infants go there without a Pagne to four or five years of age, but when once of that age, they are never uncover'd to chaftise them; and in the East it is an exceeding Infamy to be beaten naked on the parts of the Body, which are generally conceal'd.

generally conceated.

'Tis from hence perhaps, that the use of the Cudgel sprang up amongst Why they them in chastlising, by reason that neither the Whip, nor the Rod, would be the Gudgel.

fufficiently felt through their Cloaths.

Part II.

Moreover, they pluck not off their Cloaths to lie down, or at least they only modelly in Moreover, they plack not on them change the River. The Women the Bed, and change the Pague, as they do to bathe themselves in the River. The Women the Bed, and bathe themselves like the Men, and do exercise themselves in swimming 5 and Bath. in no part of the world do they swim better.

Their Modesty renders the Custom of Bathing almost insupportable unto Other Proofs them, and sew amongst them can resolve to do it. They have affixt Infamy of their Moto Nakedness: And they are no less careful about the Modesty of the Ears, defty. than of the Eyes; feeing that impure and baudy Songs are prohibited by the Laws of Siam, as well as by those of China. Yet I cannot affirm that they may not be us'dat all; for the Laws prohibit no other, than the Excess already too much establish'd: And from China there comes some Porcelane Figures and Paintings fo immodest, that they are no more permitted than the Baudiest

Those Pagnes that are of an extraordinary beauty and gaudiness, as those of What Pagnes Silk with Embroidery, or without Embroidery, and those of painted Linnen very are permitted. fine, are permitted to those only to whom the Prince presents them. The Women of Quality do greatly esteem the black Pagnes, and their Scarf is fre-

They wear Rings on the three last Fingers of each Hand, and the Fashion Rings, Brace-permits them to put on as many as possibly can be kept on. They ficely give lets, Pendants, half a Crown for Rings with falle Stones, which at Paris cost not above two Sols. They have no Necklaces to adorn their Necks, nor their Wives; but the Women and Children of both Sexes wear Pendants.

Gold, Silver, or Vermilion gilt, in the shape of a Pear.

They are generally of The young Boys and Girls of a good Family have Bracelets, but only to fix or feven years of Age; and they equally wear them on their Arms and Legs. They are Rings of Gold, or Silver, or Vermilion gilt.

As these People have their Body of another Colour than ours, it seems that Their Nakedour Eyes do not think them Naked, at least their Nakedness has nothing which ness surprize the furprized me; whereas a Naked White Man, when I met one, always appear'd not.

a new Object unto me.

The Stameses are rather Small, than Great; but their Bodies are well pro-The Statute portion'd, which I principally attribute to their not fwadling in their Infancy, of the star-The care that we take to form the shape of our Children, is not always so successful, as the liberty which they leave to Nature to proceed in forming theirs. Tis true, that the Breafts of the Siamese Women uphold not themselves from their Childhood, and hang down rather to their Navel; but otherwise, their Body is well proportioned, and their hanging Breafts offend not the Eyes of their Husbands: fo true it is that the Phantalies, even they which feem to be most natural, do greatly consist in Custom.

The shape of their Faces, as well of the Men as Women, participate less of Their Meen. the Oval, than the Lozenge; it is broad and high at the Cheek bones, and on a fudden their Forehead contracts and terminates almost as much in a Point, as their Chin. Moreover, their Eyes slit a little upwards are small, and not overbrisk, and the white thereof is generally yellowish. Their Jaws are hollow, by reason they are too high above; their Mouths are large, their Lips thick and pale, and their Teeth blacken'd. Their Complexion is gross, and of a brown mix'd with red, unto which the continual Sun-burning contributes as much as

The Women use neither Paint nor Patches, but I have seen a great Lord, A blue Cowhose Legs were blu'd with a dull Blue, like that mark which the Gunpowder lour laid on leaves. They that shew'd me it, inform'd me that it was a thing affected by the the Body.

Great Men, that they had more or less blue according to their dignity; and that the King of Stam was blud from the fole of his Feet, to the hollow of his Stomach. Others affur'd me that it was not out of Grandeur, but Superstition; and others would make me to doubt whether the King of Siam was

blue. I know not how it is.

The Note and The Stameser, as I have said, have their Nose short and round at the end, and Ears of the their Ears bigger than ours; and the larger they have them, the more they stamples.

efteem them: A Phantafy common to all the Eaft, as it appears by all the Statues of Porcelane and other matter, which come from thence. But in this there is a difference amongst the Orientals, for some do stretch their Ears at the tip to lengthen them, without boring them any more than is necessary to put Pendants therein. Others, after having bor'd them, do by little and little enlarge the hole, to thrust in bigger and bigger Sticks: And it happens, especially in the Country of Last, that they can almost thrust their Fist into the hole, and that the tip of the Ear touches the Shoulders. The Stameser have Ears formewhat bigger than ours, but naturally and without Artifice.

Their Hair is black, thick and lank, and both Sexes wear it fo short, that all

Their Hair is black, thick and lank, and both Sexes werr it to fhort, that all round the Head it reaches only to the top of the Ears. Underneath this they are very closely shaved, and this Fashion pleaseth them. The Women raise it on their Forehead, yet without fashing it again; and some, especially the Pequint, do let it grow behind, to wreath it. The young unmarried wear it after a particular manner. They cut with Scissars very close the Crown of the Head, and then all yound they pull off a small Circle of Hair about the thickness of the companiences and underneath they let the rest of their Hair. nes of two Crown-pieces, and underneath they let the reft of their Hair grow down almost to their Shoulders. The Spaniards, by reason of the heat, do thus frequently shave the Crown of their Head, but they pluck off no-

The Fancy of Now every one being in love with the things of his own Country, I doubted the siameles not but the Pictures of some of the most beautiful persons of the Court, which I had brought into this Country, would ravish the Siameses into admiration. The painting thereof was better than that of those little Pictures which are daily fent into Foreign Countries; yet it must be confessed that the Siameses hardly confider'd them, and that after the Pictures of the Royal Family, before nardly confidered them, and that after the rectures of the Royal ranning before which they respectively bowed themselves, not daring stedsfastly to behold them, they exceedingly esteemed that of the Duke of Montanzier, by reason of his high and warlike Meen. We asked two young Mandarins what they thought of a great Pupper or Baby, that we showled them. One of them reply'd, that we showled them they have the strength of the str Woman like this would be worth an hundred Catio, or fifteen thousand Livres, and his Companion was of the fame mind 5 but he added, that there was not any person at \$isam\$ that could purchase it. Whether they put so high a value on a white Woman, either for the singular delight which they take in them, or only by reason that whatever comes from far, ought to be very dear, I leave to be determined. 'Tis certain, that whether it be Fancy, or Grandeur, the King of Siam has some white Mingrelian, or Georgian Women, which he purchases in Persia: And the Siameses that had been in France acknowledg'd, that tho' they were hand one stampers that has been in France with the whiteners, or with the features of the French Women, yet they presently apprehended that they alone were handsom, and that the Simples were not. As to the habit of the Pup. pet, the two Mandarins abfolutely contemn'd it, as too intricate and troublefom for the Husband that would pull it off from his Wife: And I have fince confider'd, that they imagin'd perhaps that our Wives lay in their Cloaths, like theirs, which would doubtless be very troublesom.

As the Cloaths imbibe whatever the Body transpires, it is certain that the less one is cloath'd, the more easie it is to be neat, as the Stameses are. They perfume themselves in several places of their Body. On their Lips they put a fort of perfum'd Pomatum, which makes them appear much paler than naturally they are. They bathe themselves three or four times a day, or oftner, and it is one of their Neatneffes not to make a Visit of Confequence without bathing; and in this case they make a white spot on the top of their Breast wirh a piece of Chalk, to shew that they came from

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of the Kingdom of SIAM.

They bathe themselves two ways, either by going into the water after our Two ways of fallion, or by causing water to be pour'd over their Body with Ladles 5 and Bathing. they fometimes continue this fort of Bathing for an hour. In a word, they need not to warm the water for their Domeftic Baths, no notwithstanding it has been kept feveral days, and in Winter; it always continues naturally

They take care of their Teeth, altho' they black them : they wash their Hair The Neatness with Water and (weet Oils, as the Spaniards do, and they use no more Powder Teeth and than they; but they comb themselves, which most of the Spaniards do not. Hair. They have Combs from China, which instead of being all of a piece like ours, are only a great many Points or Teeth tied close together with Wire. They pluck their Beard, and naturally have little; but they cut not their Nails, they are fa-

tisfy'd to keep them neat. We faw some Dancers by Profession, who, for Beauty, had put on very long An Affecta-Copper Nails, which made them appear like Harpies. At China, at least before Nails, the Conquest of the Tartaris, the Custom was neither to cut the Nails, nor the the Conquert or the Intrary, the Cuttom was nettern to cut the Nails, nor the Hair, nor the Beard. The Men wore on their Heads a Net of Hair or Silk, which they faften'd behind; and which not covering the top of the Head, left a space, through which they pull'd out their Hair, and then wreath'd and fasten'd it with a Bodkin. And it is faid that this Dress on which they sometimes also in the state of the s wore Bonnets, or a kind of Hats, did cause Megrims, and other very violent pains in their Head.

#### CHAP. II.

### Of the Houses of the Siameses, and of their Architecture in Publick Buildings.

IF the Stameses are plain in their Habits, they are not less in their Houses, in The Stameses their Furniture, and in their Food: Rich in a general Poverty, because they Simplicity in know how to content themselves with a little. Their Houses are small, but every thing surrounded with pretty large Grounds. Hurdles of cless Bambou, oftentimes not close compacted, do make the Floors, Walls and Roofs thereof. The Piles, on which they are erected to avoid the Inundation, are Bambous's as this process. It is not close that the Water's constitution of the Water' as one's Leg, and about 13 Foot above the Ground, by reason that the Waters do sometimes rise as much as that. There never is more than four or six, on do fometimes rife as much as that. There never is more than tour or IIX, on which they do lay other Bambou's acrofs instead of Beams. The Stairs are a Ladder of Bambou, which liangs on the outside like the Ladder of a Windmill. And by reason that their Stables are also in the Air, they have Climbers made of Hurdles, by which the Cattle enter therein.

If every House stands single, tis rather for the privacy of the Family, which Houses soon would be discovered through such thin Walls, than for fear of Fire: For besides built, that, they make their little Fire in the Courts and not in the Houses, it is impossible to the privacy of the reason was the standard of the standard Houses, it is impossible to the privacy of the standard Houses in the Houses in the Houses in the House in the House is the standard House standard Ho

possible for them in any case to consume any great matter. Three hundred Houfes which were burnt at Siam in our time, were rebuilt in two days. On a time when a Boom was shot to please the King of Siam, who beheld it at a distance, and from one of the Windows of his Palace, it was necessary for this purpose to remove three Houses, and the Proprietors had taken and carry'd them away with their Furniture in less than an hour. Their Hearth or Chimney is a Basket full of Earth, and supported with three Sticks like a Tripode. And thus they place the Fires wherewith they enclose great spaces in the Forests for the hunting

of the Elephants.

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Tis in Houses of this Nature, or rather in these forts of Tents, but bigger, Inns at Sizes, that they lodged us along the River. They had built them purposely for us, by reason there are not any wherein they could lodge us. There are no Inns at reason there are not any whetein they could long us. There are no finds at Stam, nor in any State of Afia. But in Trukey, Perfia, and Mogal there are Caravanfera? For Travellers, that is to say public Buildings without Furniture, in which the Caravans may shelter themselves, and here every one eats and lies with the Caravans may shelter themselves, and here every one eats and lies according to the Provisions and Conveniences which he carries thither. In the according to the Provincins and Conveniences which becames timer. In the Road from Stam to Lorvo, I faw a Hall for this use. This a space about the bigness of an ordinary Hall, enclosed with a Wall about, as high as one may eafily lean over, and covered with a Roof, which is laid upon wooden Pillars fer at equal distances in the wall. The King of Siam does sometimes dine there in his Travels, but as for particular persons, their Boats serve them for their lnn.

Hospitality Hospitality is a Vertue unknown in Ma, which in my opinion proceeds from the care that every one takes to conceal his Wives. The Stameles practise it onamong the ly as to the Beafts, which they freely fuccour in their Diffreffes. But the Talamong of point having no Wives, they are more hopitable than the People. At Siam fig. was a French man who refolved to keep an Inn there : and fome Europeans only did fometimes go thither. And although amongst the Siameses, as well as amongst the Chineses, it be an established practice to entertain one another, yet it is tarely in this Country, and with much Ceremony: and especially no open Table is there kept 3 fo that it would be difficult to lay out much in keeping

What Houses the King's Ambassadors.

There being no house proper for us on the banks of the River, they built some a Table, if one would. after their Country fathion. Hurdles laid on Piles, and covered with Mats of auer their Country fathion. Hurdles laid on Piles, and covered with Mats of Bulruth, didnot only make the Floors, but the Area of the Courts. The Hall and Chambers were hung with painted Cloaths, with Ciclings of white Mullin, the extremities of which hung floping. The Floors were covered with Ruthmats, finer and more thining than those of the Courts; and in the Chambers where the King's Ambasladors lay, Tapestry-carpets were laid over the Mats. Neatnets appeared every where that no Magnificence. Neatness appeared every where, but no Magnificence. At Banck, Simm, and Lowe, where the Europeans, Chineses, and Moors have built Houses of Brick, they lodged us in Houses of this fort, and not in Houses purposely built for Yet we faw two Brick Houses which the King of Siam had built, one for the Ambaffadors of France, and the other for those of Foringal, but they are not fi-

bassadors of nished; by reason perhaps of the little probability there was, that they would must, which be frequently inhabited. Moreover it is certain that this Prince begins several must, which were not Fi- Brick buildings, and finishes few. The reason of which I know not The great Officers of this Court have Timber Houses, which are faid to be great Armories; but therein do lodge only the Master of the House, his Princiotthe great Officers of si- pal Wife, and their Children. Every one of the other Wives with her Children. dren, every Slave with his Family, have all their little Apartments feparate and alone, but yet inclosed within the same Inclosure of Bambon with the Master's House; altho they be so many different Families.

One fingle flory sufficeth them; and I am perswaded that this manner of have but one building is more commodious to them than ours; feeing that they are not first ned for room (for there remains some in the City, and they take it where they pleafe) and feeing they build with those flight materials, which every one takes preate) and teeing they ound with those ingut materials, which every one takes at pleafure in the Woods, or which he buys at a low rate of him that has been there to take them. Nevertheles it is reported that the reason why their House have but one story, is that no Person may be higher in his own House House the reason who have the taken the story when the Electronic than the King of Siam, when he paffes thro the street mounted on his Elephants and that further to affure themselves that they are all lower than this Prince when he goes either by Water or by Land, they must flut all their Windows, and come into the Street, or into their Balons to proftrate themselves. Thus they did on the day of the Entrance of the King's Ambassadors, less out of curiofity for the Show, than out of respect to his Majesties Letter: But it should feem that this cuftom of coming down out of their Houses, is a sufficient respect to their Prince. For it is not true, that the Houses crected, as they are on

### of the Kingdom of SIAM. Part II. Piles, are lower than the King on his Elephant; and it is less true, that they are not higher than the King in his Balon. But what they doubtless observe, is that their Houses are less exalted than the Palaces of this Prince. Moreover his Palaces confifting only of one story do sufficiently evince, that this is the Phantafic of the Country in their Buildings; the true reason of which I will give you in the fequel.

The Europeans, Chineses, and Moors, do there build with Brick, every one Brick-Houses according to his Genius; for that they alone will be at the expence, as I conceive, for Foreign-or that they alone have the Liberty thereof, as it is reported. At the fide of their Houles, to keep off the Sun and not hinder the Air, some do add Penthoules, which are sometimes supported by Pillars. Others do make the bodies of the House double, which do reciprocally receive the light one from the other, to the end that the Air may pass from one to the other. The Chambers are large and full of Windows, to be the more fresh and airy. And those of the first flory have lights over the lower Hall, which ought to be fo called by reason of its heighth, and which fometimes is almost all enclosed with Buildings, through which it receives the light. And 'tis this they call Divan, an Arabian word

which properly fignifies a Council Chamber, or Judgement-Hall.

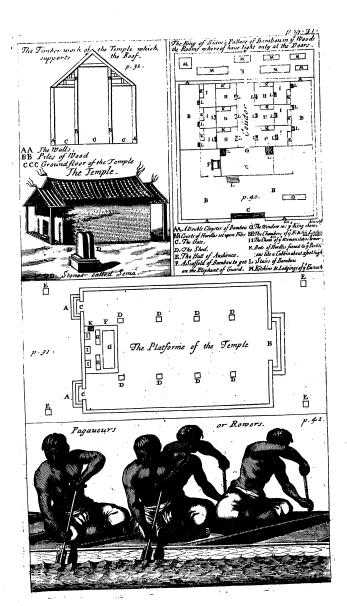
There are other forts of Divans, which being built on three fides do want a Halls called fourth Wall, on that fide which the Sun shines least on, in the whole Course Divan. of the year, for between the Tropicks it illuminates every where according to the several Seasons. On the side which is open they do put a Pent house, as high as the Roof: and the infide of the Divan is frequently adorn'd from the top to the bottom with little Niches contrived either in the Wall, or in the Wainscot, in which they put some China Dishes. We had a Divan of this last fort in our House at Siam; and in the Front under the Pent-house there played a little Foun-

The Palaces of Siam and Louvo, and several Pagodes or Temples are likewise Palaces and of Brick, but the Palaces are low, by reason they have no more than one story, Temples of as I have intimated; and the Pagodes are not raifed high enough in proportion Brick but low to their bigness. They are much darker than our Churches; perhaps because the Obscurity imprints more respect, and seems naturally to have something religious. Moreover they are of the shape of our Chappels, but without Vaults, or Cielings; only the Timber-work which supports the Tiles, is varnished with red interspersed with some streaks of Gold-

The King of China's Palace is still of Wood; and this perswades me that Brick-Build-Brick Buildings are very modern at Siam, and that the Europeans have there in-ings modern troduced the practice and use thereof. And because that the first Europeans, at Siam. which have built in this Country, were Factors, and have called their Houses, Factories; the Siamefes, from the word which in their language fignifies Factory, do likewise name their ancientest Brick-Pagod, as if they should say Pagode-Factory, or Pagode of the Factory.

In a word, they know no exterior Ornament for Palaces, nor for Temples, They know fave in the Roofs, which they cover with that ordinary Tin which they call Ca. not the five lin, or with Tiles varnished with yellow, as it is in the King of China's Palace. Orders of Ar-But tho there appears not any Gold in the Palace of Siam on the outfide, and chitecture. there is but little gilding on the infide, yet they fail not to call it Praffat-Tong, or the Golden Palace, because they give pompous names to every thing which they honour. As for what concerns the five Orders of Architecture, composed of Columns, Architraves, Frizes, and other Ornaments, the Siameles have not any knowledge thereof; and it is not in Ornaments of Architecture, that amongst them consists the real Dignity of the Royal Houses and the Temples-

Their Stairs are so mean, that a pair of Stairs of ten or twelve steps, by which Stairs and we went up into the Hall of Audience at Sian, exceeded not two foot in Gates. breadth. They were of Brick joyning to the Wall on the right fide, and without any Rail on the left. But the Siamese Lords minded it not; they went up crawling on their Hands and Knees; and fo foftly, that they might have faid that they would furprize the King their Mafter. The Gate of the Hall being fquare, but low and strait, was agreeable to the Stairs, and placed on the left



Part II.

Hand at the Extremity or Corner of the Wall of the Hall. I know not whether than at the Extremity or Cornerot the vival of the Fail. I know not whether they underfland fibility, and whether they do not believe that a very little Door is too big, feeing it is thought that they ought to profitate themselves to enter therein. This true that the entrance into the Hall of Lorvo is better, according to our Fancy, but befines that, the Palace of Lorvo is more modern, the believe the subject of Lorvo is more modern, the Prince does there lay afide his State, which refides principally in the Metropolis, as I shall relate in the sequel.

Wherein the

That which amongst them makes the real dignity of the Houses, is that altho dignly of Par there is no more than one flory, yet they are not all level. As for example, in the Palace, the King and Lady's Apartment is higher than the rest, and the nearer an Apartment is to it, the higher it is in respect to another, which is further distant: So that there is always some steps to ascend from one to the other: For they all joyn to one another, and the whole is from end to end on a line; and it is that which causes the inequality in the Roofs. The Roofs are all highridged, but the one is lower than the other; as it covers a part lower than another. And a lower Roof feems to come out from a higher Roof, and the highest to bear on the lowest, like a Saddle, the fore-bow of which bears on the hind part of another.

In the King of China's Palace it is the same : And this inequality of the Roofs, which feems to proceed one from under another, after the manner that I have explain'd it, denotes grandeur, in that it supposes an inequality of parts, which is not found in these Countries, at least in considerable number, but at the King's Houses; to the end that the further one is permitted to go into this set of Buildings, the more indeed he ascends, and the greater distinction he perceives. The great Officers will have three parts, one higher than another, which are divided by three Roofs of different elevation: But at the Palace of the City of Siam I have feen feven Roofs proceeding one from under another before the Building: I know not whether there were not others behind. Some square Towers, which are in the Palace, do feem also to have several Roofs, one three, another five, another seven, as if they were square Goblets laid one upon another; and in one of these Towers is a very great Drum headed with an Elephants Skins to beat the Toofin or Alarum in case of need.

or Pagodes.

As to the Pagodes, in those that I have seen, I observed only one single Pentthe Temples house before, and another behind. The highest Roof is that under which the Idol flands, the other two which are lower, are thought to be only for the People; although the People forbear not to enter every where on the days when

Paramids.

But the Principal Ornament of the Pagodes, is to be accompanied, as generally they are, with feveral Pyramids of Lime and Brick, the Ornaments of which are very grofly performed. The higheft are as high as our ordinary Steeples, and the loweft not exceeding two Fathom. They are all round, and do little diminish in bigness as they rife; fo that they terminate like a Dome: It is true that when they are very low, there proceeds from this Dome-like extremity a Tin Spire very small and sharp pointed, and high enough in relation to the rest of the Pyramid. Some there are which diminish and grow thick again four or five times in their heighth, fo that the Profile of them goes waving: But thefe Bellyings out are smaller as they are in a higher part of the Pyramid. They are adorn'd in three or four places of their Contour, with several Furrows or Flutings at Right Angles, as well as in that they have fome hollow, as in that they have some raised, which diminishing gradually in proportion to the Diminution of the Pyramid,do run terminating in a point at the beginning of the next bellying out, from whence do again arife new Flutings.

Halls of the

I cannot tell what the King of Siam's Apartments are; I have only feen the A Description 1 cannot tell what the King of Stam and Louve. Tis said of certain first piece thereof, which is the Hall of Audience at Stam and Louve. Tis said that no person enters further, not the King's Domesticks themselves, excepting his Wives and Eunuch; in which, if it is true, this Prince maintains a greater heighth than the King of China. I likewife faw the Council chamber in the Palace of Louvo; but it was also a first Room of another Pile of Building, I mean that it was not preceeded by any Anti-Chamber. At the Front and two

fides of this Hall lyes a Terrafs, which commands as well over the Garden which environs it, as it is commanded by the Hall; and it is on this Terrafs, and under a Canopy, purposely erected on the North side, that the King's Ambaffadors were at a private Addience, which the King of Sizm gave them; and this Prince was in a Chair of State at one of the Hall Windows. In the middle of the Garden and in the Courts there are some fingle open Rooms, which are called Halls ; I mean those square places, that I have already described, which inclosed with a Wall, no higher than one may lean over, and cover'd with a Roof, which bears only upon Pillars placed at equal diffances in the Wall. These Halls are for the chief *Mandarins*, who do there fit cross-leggd, either for the Functions of their Offices, or to make their Court, or to expect the Princes Orders, viz. in the Morning very late, and in the Evening until the approach of the Night, and they stir not thence without Order. The less confiderable Mandarins fit in the open Air, in the Courts or Gardens; and when they know by certain fignals that the King of Siam fees them, altho he be invisible, they do all prostrate themselves on their Hands and Knees.

When we din'd in the Palace of Siam, 'twas in a very pleasant place under The places of When we dind in the Palace of Stam, twas in a very pleasant place under the Palace great Trees, and at the fide of a flore-poind, wherein it was faid that amonght where we displace the control of the Palace great Trees, and at the fide of a flore-poind, wherein it was faid that amongh where we displace the control of the Palace great Women by I for which the Control of the Palace great Trees, and at the fide of a flore-poind, wherein it was faid that amongh where we displace the palace great Trees, and at the fide of a flore-poind, wherein it was faid that amongh where we displace the palace great Trees, and at the fide of a flore-poind, wherein it was faid that amongh where we displace the palace great Trees, and at the fide of a flore-poind, wherein it was faid that amongh where we displace great Trees, and at the fide of a flore-poind, wherein it was faid that amongh where we displace great Trees, and at the fide of a flore-poind, wherein it was faid that amongh where we displace great Trees, and at the fide of a flore-poind, wherein it was faid that amongh where we displace great Trees, and the palace feveral forts of Fish there are some which refemble a Man and Woman, but I saw not none of any sort.

In the Palace of Lano we dined in the Garden, in a single Hall, the Walls of which supported the Roof. They are plaistered with a Ciment extremely white, smooth, and shining, upon occasion of which it was told us there was much better made at Surat. The Hall has a Door at each end, and is encompast with a Ditch between two or three Fathoms in breadth, and perhaps one in depth, in which there are twenty little fet-deans, at equal diffances. They play like a watering pot, pierced with feveral very little holes, and they fourt no higher than the edge of the Ditch, or thereabouts, because that instead of raising the Water, they have dug away the Earth to make the Ba-

The Garden is not very spacious: the Compartments and Borders thereof The Garden are very little and formed by Bricks laid edgeways. The Paths between the of Lourse, Borders cannot contain two a breft, nor the Walks more: But the whole being planted with Flowers, and feveral forts of Palmittes and other Trees, the Garden Hall and Bourseins and the other trees, the Garden Hall and Bourseins and Liver and the of Simplicity and Contains and the other trees. den, Hall, and Fountains, had I know not what Air of Simplicity and Coolnels, which caused Delight. 'Tis a remarkable thing that these Princes should never be inclined to use Magnificence in their Gardens; altho from all Antiqui-

The King of Siam exercifing the Chace fometimes for feveral days, there are Palaces of ty the Orientals have admired them. in the Woods fome Palaces of Bambou, or if you pleafe, fome fixed Tents, which only need furnishing to receive him. They are red on the outfide, like those of the great Mand, when he goes into the Country, and like the Walls which ferve as an Inclosure for the King of China's Palace. Thave given the Model thereof your only that the Country has been the Model thereof your only that the Country has been a like the Walls which ferve as an Inclosure for the King of China's Palace. del thereof, not only that the Simplicity of it may be feen, but principally because some assured me that the King of Siam's Apartments, in his Palaces of Siam and Lonvois according to the same Model. Tis only a little Dormitory, where the King and his Wives have each a little Cell: Nevertheless the truth of what few persons do see, is always hard to know. However some also assured me concerning this Prince, what I have heard reported of Crommel, which is that for fear of being furprized by any Conspiracy, this Prince hath several Apartments wherein he locks himself at night, it being impossible to divine exactly in which he lyes, Strabo reports of the Indian Kings in his time, that this very reason obliged them to change their Bed and Apartment several times in the same Night. And this is almost all that can be spoken concerning the manner of Building amongst the Siameses. Their Furniture is as follows.

#### CHAP. III.

### Of the Furniture of the Siameses.

Their gross Houfholdftuff.

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Heir Bedstead is a wooden Frame very strait and matted, but without Head or Posts. It has sometimes six Feet, which are not joined by cross pieces, fometimes it has none at all; but the generality have no other Bed than a Matt of Bulruh. Their Table is like a Drum-head with the Edges railed, and without Feet. They have at Table neither Cloth nor Napkin, nor Spoon, nor Fork, nor Knife, they are ferv'd with Morfels ready cut. No Seats, but Bulruth Matts, finer or courfer: No Carpets, when the Prince gives them not to them: And those of fine Cloth are very honourable, by reason of the dearness thereof. The Rich have Cushions to lean on, but they use them not to fit on, not the King himfelf. That which amongst us is of Stuff or Wooll, or Silk, is generally amongst them of white or painted Cotton.

Their Veffels are either of Porcelane, or Potters Clay, with some Veffels of Their Veffels. Their Veffels are entire to Forceauts, as John Bambon afford them all the reft Copper. Wood plain, or varnish'd, Coco and Bambon afford them all the reft Copper. We were little, and almost only by If they have any Veffel of Gold or Silver, 'tis very little, and almost only by the Liberality of the Prince, and as a Chattel belonging to their Offices. Their Buckets to draw up Water are of Bambon, very neatly woven. In the Markets the People are seen to boil their Rice in a Coco, and the Rice to be sufficiently dreft, before the Coco begins to burn; but the Coco ferves no more than

Their Tools. In flort, every one builds his House, if he causeth it not to be built by his Slaves; and for this Reason the Saw and the Plane are every ones Tools. At the end of this Volume the most Curious will find a List, which two Mandarins gave me of the ordinary Moveables in their Families. Tis not that every particular person has so many, but perhaps none has more. They do there add the names of the principal parts of a House, of their Habits, and of their Arms. There may be feen the plain, but near manner after which they built, and furnisht themselves with Moveables; and several particulars of their Manners. which I there relate upon the occasion of certain Moveables.

The King's Furniture.

Their King's Furniture is almost the same, but richer and more precious than those of particular persons. The Halls, which I saw at the Palaces of Siam and Laws, are all Wainfcoted, and the Wainfcot is varnish'd Red, with some streaks and foliages of Gold. The Floors were cover'd with Carpets. The Hall of Audience at Louvo was all over embellish'd with Looking-glasses, which the King's Squadron had brought to Siam. The Council Chamber was furnish'd after this manner. In the Room there was a Sopha made exactly like a great Bedftead with its Pofts, its Bottom and its Curtain-Rods all cover'd with a Plate of Gold, and the bottom with a Carpet, but without Tester or Curtains, or any fort of Garniture; instead of the Bolster there were Cushions pil'd, on which the King lean'd, but fat not thereon, as I have already remark'd, he had only a Carpet under him. In this Hall, at the Wall of the right fide in relation to the Sopha, there was an excellent Glass which the King had fent to the King of Siam by M. de Chaumont. There was likewife a wooden Chair of State gilded, in which this Prince shew'd himself to the King's Ambasladors at a private Audience, which I have mention'd; and a Tiab or Cup to put Betel in, about two Foot high, or thereabouts, and cas'd with Silver curioufly wrought, and gilded in some places.

In all the Entertainments which we receiv'd at the Palace, we faw great store Plate which of Silver Plate, especially great Basons round and deep, with a Brim about a Finwhere which of sheadth, in which were ferr'd up great round Boxes about a Foot and an King's Palace half in Diameter. They were cover'd, and had a Foot proportion'd to their bigness, and twas in these Boxes that the Rice was served up. For the Fruit they gave us fome gold Plates, which were reported to have been made purposely for

the Entertainments which the King of Siam made for M. de Chaumont; and it is true that this Prince eats not in flat Plate. They efteem for his Dignity, that the Meffes which are ferv'd up to him are only in high Veffels, and Porcelane is more common at his Table, than Gold or Silver : A general Custom in all the Courts of Asia, and even in that of Constantinople.

### CHAP. IV.

## Concerning the Table of the Siameses.

THE Table of the Siameses is not sumptuous: As we eat less in Summer That the Siathan in Winter, they eat less than we, by reason of the continual Summer melecreat little, in which they live; their common Food is Rice and Fish. The Sea affords their Food is them very delicate small Oysfers, very excellent small Turtles, Lobsters of all fizes, and admirable Fith, the forts of which are unknown to us. Their River is also very plentiful of Fith, and principally very good and curious Eels: But

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they make little efteem of fresh Fish. Amongst the Fresh-water Fish, they have some little ones of two sorts, which A Wonder redo here deserve to be mention'd. They call them Pla out, and Pla cadi, that is to ported of two fay the Fish out, and the Fish cadi. To free me from all doubts, some have assured forts of Fish me, that after they have salted them together, as the Stameses used to do, if they leave them in an earthen Pot in their Pickle, where they foon corrupt, by reafon they falt ill at Siam, then, that is to fay when they are corrupted, and as it were in a very liquid Paste, they do exactly follow the flux and reflux of the Sea, growing higher and lower in the Pitcher as the Sea ebbs or flows. Mr. Vincent gave me a Pot thereof at his arrival in France, and affur'd me that this Experiment was true, and that he had feen it; but I cannot add my Testimony thereunto, by reason I was too late advertised thereof at Siam, to have an occafion of ascertaining it by my own Eyes; and that the Pot which Mr. Vincent gave me, and which I brought to Paris, perform d this Effect no more: perhaps because the Fish were too much corrupted, or that their virtue of imitating the flux and reflux of the Sea continues only a certain time.

The Stameles find much difficulty to make good Salt, by reason that Meats Bad Salt at do hardly take Salt in excenive hot Countries; but they love Fish ill season'd sizm: The and dry better than fielh, even striking Fish displeaseth them not no more than define of the rotten Eggs, Locusts, Rats, Lizards, and most Insects: Nature doubtless framing simples for their Appetite to things, the Digestion whereof is more easie to them. And their Appetite to things, the Digettion whereor is more easie to them. And state in the properties of the said their things have not fuch an ill tafte as we imagine. Mann whatever the in Pag. 45. Tom. I. of his Historical Discourses of China, relates that he at finells ill, is first exceedingly detested the Brooded Eggs of a Bird which he calls Tabon, not always ill but that when he cat thereof, he found them excellent. Tis certain that at Siam new-laid Eggs are very unwholsom; we do here eat Vipers, we draw not certain Birds to eat them; and fometimes Venison a little over hunted is best

A Siamese makes a very good Meal with a pound of Rice a day, which What a siaamounts not to more than a Farthing; and with a little dry or falt Fifth, which mere expends a cofts no more. The Arab or Rice Brandy is not worth above two Sols for that quantity, which amounts to a Parifian Pint; after which it is no wondersif the Stamefer are not in any great care about their Subfiftence, and if in the Evening

there is heard nothing but Singing in their Houses.

Their Sauces are plain, a little Water with some Spices, Garlic, Chibols, or Their Sauces. Their Sauces are plain, a little Water with some Spices, Garlic, Chibols, or Their Sauces. Some sweet Herb, as Baulm. They do very much esteem a liquid Sauce, like Mustard, which is only Cray Fish corrupted, because they are ill salted; they call it Gapi. They gave Mr. Ceberet some Pots thereof, which had no bad

That

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That which serves them instead of Saffron is a root, which has the Taste and Colour thereof when it is dry and reduc'd to Powder: the Plant thereof is known under the Name of *Crocin Indicens*. They account it very wholeforn for their Children, to yellow the Body and Face therewith. So that in the ftreets there are only feen Children with a tawny Complexion.

What Oil they cat.

They have neither Nuts, nor Olives, nor any eating Oil, fave that which they extract from the Fruit of Coco; which, tho always a little bitter, yet is good, when it is fresh drawn: but it presently becomes very strong, insomuch that it is not eatable by such as are not accustomed to eat bad Oil. The Taste is always made, and it happened at my return from a very long Voyage, where I met with no extraordinary Oil, that I found the excellent Oil of Paris infipid Wherefore I cannot forbear making a remark very necessary, truly to under-

How Rela-

tions must be stand the Relations of Foreign Countries. 'Tis that the words, good, excellent, understood with reference magnificent, great, had, ugly, simple, and small; equivocal in themselves, must to him that always be understood with reference to the Phantasie of the Author of the Relawrites them. tion, if otherwise he does not particularly explain what he writes. As for example, if a Dutch Factor, or a Portuguese Monk do exaggerate the Magnificence, and good Entertainment of the East; if the least House of the King of China's Palace appears unto them worthy of an European King, it must be supposed that this is true, in reference to the Court of Portugal. And yet some may doubt hereof, feeing that in truth the Apartments of the Palace of China, are no other than Wood varnished on the inside and outside, which is rather agreeable and neat than magnificent. Thus (because it would not be just to contemn every thing, that refembles not what we do now fee in the Court of France, and which was never feen before this great and glorious Reign) I have endeavour'd to express nothing in ambiguous Terms, but to describe exactly what I have feen, thereby to prevent the furprifing any person by my particular Fancy, and to the end that every one make as true a Judgment of what I write, as if he had performed the Voyage that I have done.

Another defect in Relations is the Translation of the Foreign Words. As flection on the for instance, amongst the King of China's Wives, there is only one that hath the fame Subject. Honours and Title of Queen: the rest are under her, although they be all legitimate, that is to say permitted by the Laws of the Country. They are called verbation the Ladies of the Palace, and at Siam they have the same Name. The Children of these Ladies honour not their natural Mothers, as the Chineses are obliged theirs, but they render this Respect, and give the Name of Mother to the Queen, as if the second Wives bore Children only for the principal Wife. And this is also the Custom at China, in the Houses of private Persons, who have feveral Wives, to the end that there may be an entire fubordination, which maintains Peace there as much as possible. And that the Children be not permitted to dispute amongst them the merit of their Mothers. We read almost the same thing of Sarah, who gave Hagar her Bond-maid unto Abraham, to have, as she said, fome Children by her Slave, being past Child-bearing her self. Some other Wives of the Patriarchs practised the same, and it is evident that being the principal Wives, every one was thought the Mother of all her Husband's Children. But to return to what I have spoken concerning the danger of being deceived by the Translations of the Foreign words in Relations, who sees not the Equivocation of these words, the Ladies of the Palace, put into the mouth of a Chinese, or Portuguese, or in the mouth of a French-man, who translates a Portuguese Relation of China? The same Equivocations are found in the names of Offices? Because that all Courts and all Governments do not resemble. All Functions are not found every where, and the same are not every where attributed to the same Offices, that is to say to Offices of the same name : besides that fuch a Function will be great and confiderable in one Country, which may be inconsiderable in another. As for example, the *Spaniards* have Marshals, which they at first design d in imitation of the Marshals of *France*, and yet an Ambassador would find himself exceedingly mistaken, if being accompanied to the Audience of the King of Spain, by a Marshal of Spain, he should think himfelf as highly honoured, as if he were accompany'd to the King's Audience by a Marshal of France. Now the more remote the Courts are, the greater is the defect, when the same Words and the same Idea's are transferred from the one to the other. At Siam it is a very honourable Employment to empty the King's Clofe flool, which is always emptied in a place appointed, and carefully kept for this purpole; it may be out of fome superstitious Fear of the Sorceries which they imagine may be perform'd on the Excrements. At China all the Splendor and Authority is in the Offices which we call the Long Robe: And their Military Officers, at least before the Domination of the Tartars, confifted only of unfortunate Wretches, who were not thought endow'd with Merit sufficient to raise themselves by Learning.

A third defect of Relations is to describe things only in one Particular, if Another Re-I may so say. The Reader conceives that in every thing else the Nation fame Subject. whereof he is inform'd resembles his, and that in this only it is either exravagant or admirable. Thus if it be fimply faid, that the King of Siaw puts his Shirt over his Veft, this would appear ridiculous to us, but when the whole is understood, it is found, that, tho' all Nations act almost on different Principles, the whole amounts almost to the same; and that there is not in any place any thing marvellous or extravagant. But enough is spoken on this Subject, I return to the good Cheer of the

Siameses. They have Milk from the Female Buffalo, which has more Cream, than The Milk at the Milk of our Cows; but they make not any fort of Cheefe, and scarce Siam. any Butter. Butter does hardly take any Confistence there by reason of the Heat; and that which is brought from Suratt and Bengale, through Climates fo extreamly hot, is very bad, and almost melted in arriving

They disguise dry Fish after several manners, without varying the Prepara-How the size tion. For Example, they will cut it into thin Slices, twifted like the Virmicelli their Meats. of the Italians, or the oenfs files of the Spaniards. The Chineses are so addicted to this way of difguifing their Meats, that of a Drake, for Example, they will make a Soldier, of an Ananas a Dragon, and this Dragon shall be painted in feveral Colours. Heretofore in Europe several Sugar Figures were serv'd up amongst the Fruit, but they eat them not; and the Germans call'd them Scham-effen, or Food to look upon.

Of more than thirty Dishes, wherewith we were served at Siam after the A Chinese Re-Fashion of the Chineses, it was not possible for me to eat of one: Altho it be past. naturally as easie to me as to any other, to accommodate my self to strange Tastes. At the sight therefore of so strange a Repast, I rested more satisfy'd with what some report of the Chineses, that they taste, without loathing, the Excrements of Men and other Animals, to chuse out the most proper to manure and improve their Lands; and that they commonly eat of all the Viands,

which we abhor, as Cats, Dogs, Horses, Asses, Mules, &c.

which we added, as Cats, Dugs, Added, and the Stameles, who do rarely eat of any The Stameles. In which they are very opposite to the Stameles, who do rarely eat of any The Stameles. He left, tho it be given them. But when they vouchfase so to eat thereof, little and have they rather chuse the Guts, and whatever is most loathsom to us in the Intestines, no Butchers. In their Bazars or Markets they do fell Infects broil'd or roafted, and they have Meat. not any other Roaft-meat. The King of Siam gave us fome Poultry, and other live Animals, for our Servants to kill and drefs for our Table. But in general all Food there is tough, Juiceless and Crude; and by degrees the Europeans themselves, which inhabit at Siam, do refrain eating thereof. The ancient Inhabitants of the Isle of Rhodes, according to Allam, esteemed not those who preferred Flesh before Fish. The Spaniards and Italians do eat little, and do eat it dry roasted; and we find that the English eat too much, and that they eat it too raw: 'Tis that as the Countries are hotter, Sobriety is more

The Siamefer take no care of Poultry. They have two forts of Hens, some The Poultry. are like to ours, others have the Skin and Comb black, but the Flesh and the Bones

Game.

Bones white; and when these black Hens are boil'd, it is impossible to distinguilh them from the white ones either by the tafte or colour; altho' there are some persons who generally esteem the black best. Ducks are very plentiful and very good, but 'tis a Food, which, as it is faid, does eafily cloy. The Indian Cocks are brought to us from the West-Indies, and there are none at Siam.

Peacocks and Pigeons are wild there; all Partridges are gray: Hares are very fearce, and no Rabbers to be feen. It may be that the Race could not preferve itelf in the Woods, amongft all the carnivorous Animals, wherewith they are flored. There is great plenty of Francolins, and excellent Snipes; here they do eat Turtle-doves, whose Plumage is variegated, Parrots, and divers small

Birds, which are good.

But Wild Fowl is fecure amongst the Stameses; they love neither to kill Wild-Fowl. them, nor hinder their liberty. They hate the Dogs that will take them; and moreover, the heighth of their Herbage, and the thickness of the Woods do tender the Chace difficult; yet the Moors do exceedingly divert themselves in the flight of Faulcons, and these Birds do come to them from Persa.

The Peculiarity of the may be in other hot Countries) is, that almost all the Birds at Siam are beautified of Siam, ful to behold, and are all very unpleasant to hear. There are several forts, which imitate the Voice; all have some Cry, but no warbling Note. And tho in this Country there are some of the Birds which we have here, they are, for Example, neither Nightingales nor Canary-Birds, but Sparrows, Peacocks, Crows, and Vultures. The Sparrows do enter boldly into the Chambers, there to pick up the little Infects, wherewith they fwarm. The Crows and Vultures are very plentiful, and very familiar; because no person frights them, and the people feed them out of Charity. They do generally give them the Children, which die before three or four years old.

Goats and Sheep are here very scarce, finall, and not over-good; they are to Meat, is worth be hought only of the Moors: the King of Sian cauled a quantity of them to Meat, is worth be nourished for himself. They generally keep the Ox and Enffalo for Tillage, nothing at and fell the Cows, and the whole is very bad to eat.

The Pig is there very small, and so fat, that it is distasteful; yet the flesh Siam. The goodness thereof is the wholfomest that can be eaten in most of the Countries of the of the Pig. Torrid Zone, and is given to fick persons. The Pigs are excellent also on the Sea, when they eat Bisket; whereas the Sheep do frequently tafte of the wooll, by reason they eat it one from another, as Poultry eats their feathers.

Meats.

As to the price of Meats in the Kingdom of Siam, a Cow is not worth above ten Sols in the Provinces; and a Crown, or thereabouts, in the Metropolis: A Sheep four Crowns: A Goat two or three Crowns, ( tho' the Moors do fell them very unwillingly, because this is their principal Food: ) A Pig is not worth above seven Sols, by reason the Moore eat not thereof; Hens are worth about twenty pence a dozen, and a dozen of Ducks is worth a Crown.

Volatiles do ceedingly at

All Volatiles do multiply extreamly at Siam; the heat of the Climate almost hatches the Eggs. Venison also is not wanting, notwithstanding the spoil which the wild Beasts make thereof, if the Stameses were greedy of Dainties: But when they kill Bucks, and other Beafts, it is only to fell the Skins thereof to the *Dutch*, who make a great Trade thereof to *Japan*.

Yet to the discredit, in my opinion, of Sobriety, or because that in proportion

The Diftempers of the Siameles.

to the heat of their Stomach, the Siamefes are not more fober than us, they live not longer, and their Life is not less attack'd with Diseases than ours. Amongst the most dangerous, the most frequent are Fluxes and Diffenteries, from which the Europeans that arrive at this Country, have more trouble to defend themselves, than the Natives of the Country, by reason they cannot live sober enough. The Stamefes are fometimes attackt with burning Fevers, in which the transport to the Brain is easily formed, with defluxions on the Stomach. Moreover, Inflamations are rare, and the ordinary continual Fever kills none, no more than in the other places of the Torrid Zone: Intermitting Fevers are alforare, but violent, thoy the cold Fit be very short. The External does so ex-

of the Kingdom of SIAM. Part II.

ceedingly weaken the Natural Heat, that here are not feen almost any of those Diftempers, which our Physitians do call Agues: and this is so throughout India, and also in Persia, where, of an hundred fick persons, Mr. Vincent the provincial Physician, whom I have already mention'd, declar'd that he fcarce found one which had the Fever, or any other hot distemper. Coughs, Coqueluches or Quinancies, and all forts of Defluxions and Rheumatifins are not less frequent at Siam, than in these Countries; and I wonder not thereat, seeing that the weather is inclined to Rain fo great a part of the year: but the Gout, Epilepfy, Apoplexy, Pthysick, and all forts of Cholick, especially the Stone, are very

There are a great many Cankers, Abcesses, and Fistula's. Fresipeli are here so frequent, that among twenty men, nineteen are infected therewith; and fome have two thirds of their body cover'd therewith. There is no Scurvy, nor Dropfie, but a great many of those extraordinary differences, which the people conceive to be caused by Witchcraft. The ill consequences of a debauch are here very frequent, but they know not whether they are ancient or modern

in their Country.

In a word, there are some contagious diseases, but the real Plague of this What is the In a word, there are some contagious diseases, but the real Plague of this What is the Country is the Small Pox: It oftentimes makes dreadful ravage, and then they Plague at Si-Country is the Small Pox: It oftentimes makes their Plague at Si-Country is the Small Pox: It oftentimes have because their Plague diseases makes. interr the bodies without burning them: but because their Piety always makes a them defire to render them this last respect, they do afterwards digthem up again: and that which exceedingly surprizes me, is, that they dare not do it till three years afters or longer, by reason, as they say, that they have experimented the state of the same states of the mented, that this Contagion breaks out afresh, if they dig them up sooner.

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### CHAP. V.

Concerning the Carriages and Equipage of the Siamcses, in general.

B Efides the Ox and Buffalo, which they commonly ride, the Elephant is their Their dome-fole Domestick Animal. The Hunting of Elephants is free for all, but flick Animals. they purfue this Chase only to catch them, and never to kill them. They never cut them, but for ordinary fervice they use only the Female Elephants: the Males they delign for the War. Their Country is not proper for the breeding of Horses, or they know not how to breed them: but I believe also that their Pastures are too course and moorish, to give Courage and Mettle to their Horses; and this is the reason that they need not to cut them to render them more tractable. They have neither Affes nor Mules; but the Moors which are fettled at Siam, have some Camels, which come to them from abroad.

The King of Siam only keeps about two thousand Horses: He has a dozen of The King of Persian, which are now nothing worth. The Persian Amhassador presented simms Horses. them to him about four or five years fince, from the King his Master. Ordinarily he fends to buy fome Horses at Batavia, where they are all small and very brisk, but as refty as the Javan people are mutinous; either for that the Country makes them fo, or that the Hollanders know not to manage them.

I have more than once feen in the firects of Batavia the Burgeffes of the City The Cavalry on Horfeback; but in an inftant their Ranks were broken, by reason that most and Infancy of their Horfes would ftop on a fudden, and would refuse to march: and mine of Basevia. Hoft hereupon informed me, that the common fault of the Javan Horses was to prove very refty. The Dutch Company maintain Infantry at Batavia, amongst which there is a good number of French. As for what concerns the Cavalry, there is no other than the Burgeffes, who notwithstanding the heat of the Climate, do cloath themselves with good Buff, with rich trappings embroider'd with Gold and Silver. No Burgher serves in the Infantry-but if a Souldier demonstration

ftrates that he has wherewith to fettle and maintain himfelf ar Batavia, either by a Marriage or a Trade, they never refuse him neither his liberty, nor his right of Burghership.

The King of When we arriv'd there were two Siamefes to buy two hundred Horses for siam rides lit, the King their Master, about an hundred and fifty of which they had already tle or not at all fent away for Siam. 'Tis not that this Prince loves to ride on Horseback; this way feems to him both too mean and of too little defence : for the Elephant appears to them much more proper for Battel, though when all comes to all, it may reasonably be doubted whether he be more proper for War, as I shall show in the fequel. They report that this Animal knows how to defend his Mafter, and to fet him upon his back again with his Trunk, if he is faln, and to throw his Enemy on the ground. When the King of Siam feizd on the Crown, the King bis Unkle fled from the Palace on an Elephant, and not on

Horseback, altho a Horse seems much properer to fly. In the Palace there is always an Elephant on the Guard, that is to fay Har-A Guard Elephant in the nessed and ready to mount, and no Guard Horse. Yet some have assured me, that the King of Siam disdains not absolutely to ride on Horseback, but that he

does it very rarely.

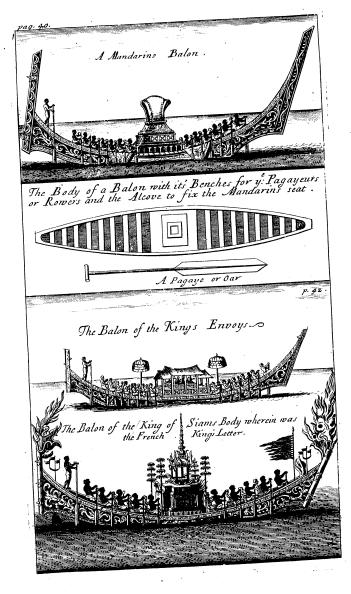
The King of In this place of the Palace where the Guard-Elephant stands, there is a little Sam never Scaffold, to which the King walks from his Apartment, and from this Scaffold feen on Foot, he eafily gets upon his Elephant. But if he would be carry'd in a Chair by men, which he fometimes is, he comes to this fort of carriage, at the due heighth of placing himfelf therein, either by a Window or a Terrace, and by this means neither his Subjects nor Strangers do ever fee him on Foot. This Honour is only referved for his Wives and Eunuchs, when he is lock'd up with-

Their Sedans. Their Chairs or Sedans are not like ours, they are square and slat Seats, more or less elevated, which they place and fix on Biers. Four or eight men (for the Dignity herein confifts in the Number) do carry them on their naked Shoulders, one or two to each Staff, and other men relieve these. Sometimes these Seats have a Back and Arms like our Chairs of State, and fometimes they are fimply compast, except before, with a small Ballister about half a Foot high; but the Simplet do always place themselves cross-legged. Sometimes these Seats are open, fometimes they have an Imperial; and these Imperials are of several forts. which I will describe in speaking of the Balons, in the middle of which they do likewise place these Seats, as well as on the backs of Elephants.

The Imperial As often as I have feen the King of Siam on an Elephant, his Seat was withnoverphera Sur an Imperial, and all open before. At the fides and behind do rife up to the nourable at si-top of his Shoulders three great Foliages, or Feathers gilt, and bent outwards at the Point: but when this Prince flops, a Footman, who flands ten or twelve paces from him, shelters him from the Sun with a very high Umbrella like a Pike, with the Head three or four Foot in Diameter: and this is not a small fatigue, when the Wind blows thereon. This fort of Ulmbrella, which is only

for the King, is called Pat-book, To return to the riding of the Elephant, those that would guide him them-How they get 10 return to the riding of the Elephant, those that would gathe him thind of upon an Ele-felves do feat themselves on his Neck, as on a Horse, but without any kind of Saddle; and with a punch of Iron or Silver they prick him on the head, somephant. times on the right fide, fometimes on the left, or exactly in the middle of the Forehead, telling him at the same time whether he must go, and when he must ftop; and on the Road in the descents of the ways they advise him to go descending, Pat, Pat, that is to say, descend, descend. But if one will not take the pains to guide him, he places himself on his back in a Chair, instead of a Saddle, or without a Chair and on his Hair, if we may fo speak of an Animal that has none: And then a Servant, or commonly he that takes care of feeding

the Elephant, gets upon his Neck and guides him; and fometimes there is allo another man feated on the Crupper. The Stamefer do call him that is placed on the Crupper Hona fip, or the Chief of Ten, because that they suppose out of Pride, that an Elephant has a great number of men to serve him, and that there are ten under the command of the Hona sip. Him that sits upon the Elephants



Neck they do call Nai-Tehang, or Captain of the Elephant, and he commands over all those that are appointed for the service of the Elephant.

But because that in this Country they go more by Water than by Land, the The Carriage King of Siam has very fine Balons. I have already said that the Body of a Balon of the Balons. is composed only of one single Tree, sometimes from sixteen to twenty Fathom in length. Two men fitting cross-leg'd by the side one of another, on a Plank laid across, are sufficient totake up the whole breadth thereof. The one Pagayes at the right, and the other on the left fide. Pagayer is to row with the Pagaye, and the Pagaye is a fhort Oar, which one holds with both hands, by the middle, and at the end. It feems that he can only fweep the water though with force. It is not fixed to the edge of the Balon, and he that manages it, looks where he

goes; whereas he that rows, turns his back to his Road.

goes, whereas he that lows, tunishing back to his to an hundred and twenty ferries an hundred, or an hundred and twenty ferries of a Pagazens, thus ranged two and two with their Legs croffed on Plancks: but the Fation. interior Officers have Balons a great deal florter, where few Pagayes or Oars, as fixteen, or twenty do fuffice. The Pagayenrs or Rowers, do strike the Pagaye in Confort, do fing, or make some measured Noises; and they plunge the Pagaye in a just cadence with a motion of the Arms and Shoulders, which is vigorous, but easy, and graceful. The weight of this Bank of Oars serves as Ballast to the Balon, and keeps it almost even with the water, which is the reason that the Pagayes are very short. And the Impression which the Balon receives from so many men which vigoroufly plunge the Pagase at the same time, makes it al-ways totter with a motion which pleases the Eye, and which is observed much more at the Poop and Prow; because they are higher, and like to the Neck and Tail of some Dragon, or some monstrous Fish, of which the Pagayes on either fide shew like the Wings or the Fins. At the Prow one single Pogapeur takes up the first Rank, without having any Comrade at his side. He has not room enough to cross his left Leg with his right, and he is forced to stretch it out over an end of a stick, which proceeds from the side of the Prow. 'Tis this first Pagayer that gives the motion to all therest. His Pagaye is somewhat longer, by reason that he is posted in that place where the Prow begins to rife, and that he is fo much the further from the Water. He plunges the Pagage once to every measure, and when it is necessary to go swifter he plunges it twice; and lifting up the Pagage continually, and only for decency with a shout, he throws the water a great way, and the next stroak all the Equipage imitates him. The Pilot stands always at the Poop, where it rises exceedingly. The Rudder is a very long Pagare, which is not fixed to the Balon, and to which the Steersman feems to give no other Motion, than to keep it truly perpendicular in the water, and against the edge of the Balon sometimes on the right side, and sometimes on the left. The Women Slaves do row the Ladies Balons.

In the Balons of ordinary service, wherein there are sewer Pagageurs, there is Several forta in the middle a Cabin of Bambon, or other Wood, without Painting or Var- of Balons. nish, in which a whole Family may be held, and sometimes this Cabin has a lower Pent-house be fore, under which the Slaves are; and many of the Siameses have no other Habitation. But in the Balons of Ceremony, or in those of the King of Siam's body, which the Portuguese have called Balons of State, there is in the middle but one Seat, which takes up almost the whole breadth of the Balon, and wherein there is only one Person and his Arms, the Sabre and Lance. If it is an ordinary Mandarin, he has only a single Umbrella like ours to shelter himself; if it is a more considerable Mandarin, besides that his Seat is higher, he is covered with what the Portugueses call Chirole, and the Stameses Coup. Tis an Arbor all open before and behind, made of Rambous cleft and interlaced, and co-Artor an open perore and period, made or hampon certain interfacts, and obverd within and without with a black or red Varnish. The red Varnish is for the Mandarins at the right hand, the black for those of the left, a distinction which I shall explainin its due place. Besides this the extremities of the Chirole are gilded on the outside the breadth of three or four Inches, and some pretend that 'tis in the fashion of these gildings, which are not plain, but like Embroidery, that the Marks of the Mandarins Dignity are. There are also some Chiroles cover'd with Stuff, but they serve not for rainy weather. He that commands

the Equipage fometimes cudgels, but very rarely, those which row foftly and out of measure, places himself cross-leg d before the Mandavin Seat, on thesextremity of the Table, on which the Seat is fixed. But if the King chances to pass by, the Mandarin himself descends upon this Table, and there prostrates himself; his whole Equipage does likewise follow his example, and his Balon ftirs not till the King's be out of fight.

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The Batons of The Imperials of the Batons of State are all over gilded, as well as the Pagaper the Body which are call by Columns, and loaded with feveral pieces of Sculpture in Pyramids, and fome have fleeds againft the Sun. In the Baton where the King's left Batons of the Batons Person is, there are four Captains or Officers to command the Equipage, two before and two behind they fit crofs-leg'd, and this is the Ornament of the Balons.

Now as these Vessels are very narrow, and very proper to cur the water, and The Swiftnels of the Ba- the Equipage thereof numerous, it cannot be imagin'd with what swiftness it carries them, even against the Stream, and how pleasant a fight it is to behold a great number of Balons to row together in good order.

The Ente-

I confess that when the King's Ambassadors entred in the River, the Beauty rance of the of the Show furprized me. The River is of an agreeable breadth, and notwith-Kings Ambas standing its Manders, there is always discover'd a very great extent of its Chanfadors into the nel, the Banks whereof are two Hedge-rows continually green. This would be the best Theater in the World for the most sumptuous and magnificent Feasts: but no Magnificence appears like a great number of men devoted to ferve you. There were near three Thousand embarkt in feventy or eighty Balons, which made the Train of the Ambassador. They rowed in two ranks, and left the Balon with the King's Ambaffadors in the middle. Every one was animated and in motion: All eyes were taken up with the diverfity and number of the Balons, and with the pleafantness of the River's Channel; and yet the ears were diverted by a barbarous, but agreeable noife of Songs, Acclamations and Infruments 3 in the intervals of which the Imagination ceafed not to have a fenfible tafte of the natural filence of the River. In the night there was another fort of Beauty, by reason that every Balon had its Lanthorn; and that a noise which pleases, is much more pleasant in the night.

'Tis afferted at Siam that the Court was formerly very magnificent, that is Magnificence to fay, there was a great number of Lords adorn'd with rich Stuffs, and a great of the Court many precious Stones; and always attended with an hundred or two hundred Slaves, and with a confiderable number of Elephants: but this is gone ever fince the Father of the present King cut off almost all the most considerable, and consequently the most formidable Siameles, as well those who had served him in his Revolt, as those which had opposed him. At present three or four Lords only have permission to use those Chairs or Sedans, which I have spoken of. The Palankin (which is a kind of Bed, that hangs almost to the ground, from a great Bar, which men carry on their Shoulders) is permitted to fick perfons, and fome difeafed old men, for 'tis a Carriage wherein they can only lie along. But though the Siameses may not freely use these forts of Conveniences, the Europeans which are at Siam, have more permission herein.

Umbrella's.

The use of Umbrellas, in Siamese Roum, is also a Favour which the King of Siam grants not to all his Subjects, although the Umbrella be permitted to all the Europeans. Those which are like to ours, that is to say, which have but one round, is the least honorable, and most of the Mandarius have thereof. Those that have more rounds about the fame handle, as if they were feveral Umbrella's fix'd one upon another, are for the King alone. Those which the Siameses do call Clot, which only have one round, but from which do hang two or three painted Cloaths like fo many Hangings, one lower than the other, are those which the King of Siam gives to the Saucrats or Superiors of the Talapois s. Those which he gave to the King's Ambassadors were of this last fort, and with three Cloaths. You may fee the figure thereof in that of the Balons of the King's Ambaffadors.

The Indicate of the Talapoins have Umbrella's in the form of a Screen, which they carry in the Talapoins, and the Origine of the folds thereof are tyed with a thread near the ftem, and the ftem which they word Talapoin.

make crooked like an S is the handle thereof. In Siamese they call them Talapat, and 'tis probable that from hence comes the name of Talapoi or Talapoin, which is in use amongst Foreigners only, and which is unknown to the Talapoins themselves, whose Siamese namelis Tchaou-cou.

The Elephant is the carriage of every one that can take one by hunting, or The Elephant The Elephant is the carriage or every one that can take one by hunting, of and Boat perpurchase one; but the Boat is the more universal carriage: no person can travel mitted to all.

without one, by reason of the annual Inundation of the Country.

Part II.

whilft the King of Siam is in his Metropolis, the ancient cuftom of his Court when and requires that he show himself to the people five or fix days of the year only, and how the King that he does it with Pomp. Heretofore the Kings his Predecessors did first break of Siams thews up the ground every year, till they left this Function to the Oc. ya-kaon; and it himfelf. was attended with great Splendor. They also went out another day to perform on the water another Ceremony, which was not less superstitious, nor less splendid. Twas to conjure the River to return into its Channel, when the Agriculture requir'd it, and when the Wind inclining to the North affured the return of fair weather. The present King was the first that dispenced with this troublefom work, and it is feveral years fince it feem'd abolished; because, say they, that the last time he perform'd it, he had the disgrace of being surprized with rain, altho his Astrologers had promifed him a fair day.

Ferdinand Mendez, Pinto, relates that in his time the King of Siam used to shew himself one day in a year upon his white Elephant, to ride through nine streets of the City, and to extend great Liberalities to the People. This Ceremony, if it has been in use, is now abolished. The King of Siam never mounts the white Elephant, and the reason which they give is, that the white Elephant is as great a Lord as himself, because he has a King's soul like him. Thus this Prince shews himself in his Metropolis no more than twice a year, at the beginning of the fixth and twelfth month, to go and present Alms of Silver, yellow Pagnes, and fruits to the Talapoins of the Principal Pagods. On these days, which the Siameles do call Van pra, a holy, or excellent day, he goes upon an Elephant to the Pagods. godes which are in the fame City, and by water to another, which is about two leagues from the City down the River. On the days following he fends the like Alms to the less considerable Pagods: but this extends not above two leagues from the Metropolis, or thereabouts. And in the last month of the year 1687, this Prince went no where in person, he contented himself with sending every where.

Prince went no where in perion he contented himlest with sending every where.

If therefore the King of Siam shows himself in his Metropolis, 'is supon some Ceremonies of Religion, At Louvo, where it is permitted him to lay assist him lives things of the Tyger and Ele-siam lives hant, or to stir himself; he goes with so little Pomp, that when he marches with less from Louvo to his little house of Thies-poul some with his Ladies, he gives not any pompara Louvo carriage to the women which are of the Company: which is doubtless a respect to their Milkrosses.

from these women Slaves to their Mistresses.

Nevertheless he has always in his retinue two or three hundred men as well The King of on foot as on horseback; but what is this in comparison of those Trains of fif- siani sterinue, teen and twenty thousand men which the Relations do give him on days of Ceremony? Before him do march fome Footmen with Staves, or with long Truncks to shoot Peas with, to drive all the People out of his way, and especially when the Ladies follow him; and likewise before he goes out the Europeans are therewith acquainted, if there are any lately arrived, to avoid meeting him: As for all the Afaticks, they very well know this custom, which is the same in all the Courts of Asia. Barros reports, that in the true India, when a Nobleman walks in the Streets he is always preceded by one of his Domesticks, who crys po, po, that is to say, close, close, to the end that all the Ploughmen may difperfe themselves. Oforius reports, that its the Ploughman that is obliged to cry out, and he subjoyns, that it is for fear lest any Nobleman should touch him unawares, and revenge this Affront by killing him. The Neirus I call Nobles, who alone make profession of Arms, and who think themfelves defiled, when they touch a Ploughman. At Siam and China the principal Magistrates have Officers that go before them, who make the People to stand in Ranks, and who would cudgel those that would not retire; or which would

not render to their Master all the other respects which are due unto him, and which in these Countries we found very insupportable. 'Tis no wonder therefore if the King of China, the Great Magul, the King of Persia, and the other Assatick Potentates have thought it conssistent with their Dignity, thus to advertize the People of their March. Those that do for this purpose precede the King of Siam, are called Conslaban and Coong. The Conslabans do keep the right hand, and the Coong's the lest: and we shall see in the List of certain Office 1s, that Coong is the Title of the Provost. 'Tis upon the same account, that is to say, to disperse the People from the person of the King of Siam, when he travels, that two Officers of his Horse Guard, of Man and Laos. do march on both sides that two Officers of his Horse Guard, of Men and Laos, do march on both sides. but about 50 or 60 paces from him. His Courtizans appear first at the Rendeyouz, or they do fometimes follow on Foot with their hands joyn'd on their breast. Sometimes they follow on Horseback, sometimes on Elephants, but in this case their Elephants have no Chairs. The Foot and Horse-Guards do likewise follow, but consused and without any order; and if this Prince flops, all that follow him on Foot, prostrate themselves on their Knees and Elbows, and those that follow on Horseback, or on Elephants, do entirely bow down thenselves on these Animals. Those which are named Schaon mon, do also follow a Foot: They are the King's Domesticks, which are not Slaves. Some do carry his Arms, and others his Boxes with Betel and A-

The fingular When this Prince gave to the King's Ambaffadors the divertion of taking an Respect of the Elephant, twelve Lords cloath'd in Scarlet, and with their red Caps, arrived bestimels for their King for the King at the place of the Show, and seated themselves cross-leg'd on the ground before the place, where the King their Master was to stand. The were turn'd toward the place of the Show; but so soon as they heard the Noile of this Prince's March, they prostrated themselves on their Knees and Elbows towards the place from whence the found came, and as the Noise approached they turned themselves by little and little towards the Noise, and still remained prostate: So that when the King their Master was come they, were prostrate before him, and their back was turned to the Show; and whilst the Show continued they made not any motion, and exprest not any fign of Curiosity. But my Discourse insensibly leads me to speak of the Shows and other Diversions of

#### CHAP. VI.

### Concerning the Shows, and other Diversions of the Siameses.

The way of catching a wild Ele-

THE place, where the Elephant is that they would take, is as it were a very broad and very long Trench. I fay, as it were a Trench, because it is not made by digging, but by raifing the Earth almost perpendicular on each fide, and it is upon these Terrasses that the Specators stand. In the bottom, which is between these Terrasses, is a double row of Trunks of Trees above ten Foot high, planted in the Earth, big enough to refift the Attacks of the Eleten root night, planted in the Earth, big enough to renit the Artacks of the Elephant, and far enough from one another to let a Man pass between, but too close to let an Elephant pass through. 'Tis between these two rows of Trunks, that the tame Fennale Elephants, which they had led into the Woods, had enticed a wild Male Elephant. Those which guide them thither, do cover themselves with Leaves, to avoid frighting the Elephants of the Woods, and the Enough Elephants are wild a facility country to make the Elephants of the Woods, and the Enough Elephants are wild a facility country to make the Elephants. Female Elephants have understanding enough, to make the Cries proper to call the Males. He was already intrap d in the double row of Trunks, by following the Females, and could no more return into the Woods; but the defign was to take him and tie him, to shut him up and tame him. The Egress from the space wherein he was, is a strait Cortina, composed also of great Trunks of

Trees. So foon as the Elephant is enter'd into this Cortine, the Gate through which he enters, and which he opens by thrusting it before him with his Pro-bofcii, thuts again with its own weight: the other Gate through which he must pass is shut; and besides the space is so narrow, that he cannot turn himself therein. The difficulty was to engage the wild Elephant in this Cortine, and to engage him fingle; for the Females were still with him in the Trench, and he did not separate from them. Several Siameses who stood behind the Pallifado's of the Trunks, and the Foot of the Terrasses, where the Elephant could not come at them, enter'd every where between the Trunks into the space, where the Elephant was, to vex him; and when the Elephant purfued one of them, he fled very fwiftly behind the Pallifado's, between which the enraged Elephant vainly thruft his *Probletis*, and against which he broke the end of one of his Teeth. Whilst he thus pursued after those which provoked him, others laid long Nooses for him. One of the ends of which they kept; and they threw them at him with fo much dexterity, that the Elephant in running never fail'd to put one of his hind-feet therein: fo that by diligently putting the end tail of to put one of his hind-teet therein: to that by dingently putting the end of the Noofe, they closd and faftend it a little above the Elephant's foot. These Noofes were of great Ropes, one of the ends of which was put into the other like a Slip-knot, and the Elephant dragged three or four of them at each hind-foot. For as soon as the Noofe is once knit, he lets go the end thereof, to avoid being drag d himself by the Elephant. The more he is exasperated, the less he affociates with the Females; and yet to make them quit this space, a Man mounted on another Female enter'd therein, and went back again several times through the Corrine and this Female which he mounted, called the ral times through the Cortine, and this Female which he mounted, called the others, by a dry blow, which the struck against the ground with her Problem. She darted it perpendicularly downwards, yet avoiding to frike altogether with the end, which she kept bended upwards. And when she had repeated this Call twice or thrice, he that rid her, made her to return back again through the Cortine. In fine, after he had perform'd this Trick five or fix times with this Female, the other Female follow'd her, and foon after the Elephant return'd to himself, because they forbore to vex him, resolved to go after them. He pushed open the first door of the Cortine with his Proboscia, and so soon as he was enopen the first door of the Cortine with his *Proboleis*, and to toon as he was enter'd, they threw several Buckets of water on his Body to refresh himsand with an incredible swiftness and dexterity they ty'd him to the Trunks of the Cortine with the Nooses, which were already at his feet. Then they made a tame Elephant to enter backwards into the Cortine, to whose Neck they also ty'd the savage Elephant by the Neck, and at the same time unloos'd him from the Trunks 3 and two other tame Elephants being likewise led to the Succor, all the threat the one on one side the other on the other, and the third behind do the three, the one on one fide, the other on the other, and the third behind, do conduct the wild Elephant under a Pent-house near adjoining, where they fasten and tie him close by the Neck to a Pivor planted upright, which he made to turn as he turn'd round. They faid that he need remain at this Pivot but 24 hours, and that in this space of time they would lead some tame Elephants to him to keep him company, and comfort him: that after 24 hours they would carry him into the Stable appointed for him; and that in eight days he would

of the Kingdom of SIAM.

bethink himself, and submit to Slavery.

They speak of an Elephant as of a Man; they believe him perfectly ratio-what the Sidney and, and they relate such rational things of him, that he only wants Speech; meles do think nal, and they relate such rational things of him, that he only wants Speech of the Elenai, and they relate luch rational things of him, that he only wants Speech; meges of this is one, for Example, to which you may give what Credit you pleafe. Some of the Elehave related to us for a known Truth, that a Man having crack da Caco on the lead of an Elephant which he rode, and ufing for this purpose the back of that kind of Punch, with which I have faid that they guide the Elephants, this Eleshant cold was referred to the revening himself or former has could be a leader to the Elephants. Elephant took up a refolution of revenging himfelf as foon as he could. He gather'd up with his *Probofets*, as they fay, one of the Shells of the Coo, and kept it feveral days, never letting it go but to eat, during which he kept it carefully between his two fore-feet. In fine, he that had affronted him; approaching him to give him food, the Elephant feiz'd him, trampled him under his feet; and flew him, and for his Justification laid the Coo-Shell on the dead Body. Tis in these terms that the Relation was made to us: for the Siameses do think that

Elephants are capable of Justice, and of profiting by the punishments one of another; and they alledge that in War, for Instance, when these Animals mutiny, it is needful only to kill one on the spot, to render all the others wise. Put these Relations, and several others, which I have forgot, do seem very fabulous; and not to digress from the Example, which I have mentioned, it is, in my opinion, very evident, that if the offended Elephant had confulted reason, he would not have waited another opportunity of revenge, but would have wreak'd his vengeance on the foot; feeing that every Elephant can with his Probafeis throw off the Rider, and having thrown him on the ground, trample him under foot, and kill him.

As for my felf, during the time I was at Siam, I faw no marvellous Act persuffer took form'd by any of thefe Animals, tho' I amperfuaded that they are more docible leave of the than others. They embarked three young ones, which the King of Siam fent phants, which to the three Princes the Grandfons of France. The Siamfes which brought the King of them on Board our Ships to embark them, took leave of them, as they would Siam fent into have done of three of their Companions, and whisper'd them in their Ears, saying, Go; depart chearfully, you will be Slaves indeed, but you will be fo to three the greatest Princes of the World, whose Service is as moderate as it is glorious. They afterwards hoisted them into the Ships, and because they bow'd down themselves to go under the Decks, they cry'd out with admiration, as if all Animals did not as much to pass under low places.

The Elephant One day at Lonvo an Elephant tore in pieces in the Street the Brother of a is very dange- young Mandarin, who was with the King's Ambassadors, as Mr. Torph had been rous when he with the Ambassadors of Siam. They said indeed that the Elephant was enraged, but this Rage was not of a Beast more reasonable, but only more cruel than the rest. Thus to render the Elephants of War more tame, they are accompany'd with Females, when they are led out to water and wash themselves, and I know not whether without this Train it could ever be accomplished. The Siameles report, that the Elephants are fensible of Grandeur; that they love to have a great House, that is to say, several Grooms for their service, and some Females for their Mistresses, ( with whom nevertheless it is said that the Elephants defire familiarity only in the Woods, follong as they are favage, and at full liberty:) that without this state, they afflict themselves at the little regard had for them; and that when they commit any great Fault, the severest punishment that can be inflicted on them, is to retrench their House, to take away their Females, to remove them from the Palace, and to fend them into Stables abroad. They say that an Elephant having been punithed after this manner, and being set at liberty, returns to his Lodge at the Palace, and kills the Elephant which was put in his place; which feems neither incredible nor strange, provided the way be free and open: for every Animal loves his usual Lodging, and according as he is more or less Couragious, he will use more or less Violence to drive out another Animal.

A Fight of Elephants.

To return to the Diversions of the Court of Siam, we saw a Fight of two Elephants of War. They were retained by the hind-feet with Cables, which feveral Siameses held, and which besides this were sasten'd to Capstains. The Elephants could hardly cross their Trunks in the Fight, two Men were mounted on each of them to animate them; but after five or fix Attacks the Combat ended, and they brought in the Females, who parted them. At the great Mogul's Palace, the Elephants are permitted to approach nearer, and these Animals endeavor to beat off each other's Rider, and frequently they knock him down and kill him. At Siam they neither expose the Life of Men nor Beafts, by way of Sport or Exercise.

Cock-fight-

They love Cock Fighting. The most Couragious are not always the biggest, but those which are naturally the best armed, that is to say, those which have the best Spurs. If a Cock falls, they give him drink; by reason that they experimentally know that it is oftentimes only an effect of Thirst, and indeed he generally renews the Fight after quenching his Thirth. But as it almost allways cost the life of one of the Cocks, the King of Siam prohibited these fort of Duels; because the Talapoin cry'd, and said, That the Owners of the Cocks would

for their punishment be bastinado'd in the other World with Bars of Iron I forbore going to a Fight of an Elephant and a Tyger, because the King of Stam would not be there, and that I knew they would not permit to these Animals the liberty of using all their Courage. Some informed me that the Tyger had been very Cowardly, and that the Show had succeeded ill. The hunting of Elephants performed by an enclosure of Fires in the Woods, has been described by others: the King of Siam went not to that which was perform'd whil'st the King's Ambaffadors were at his Court neither were they invited; but the other Diversions which were exhibited to them all at once, and in a vast Court, were

of the Kingdom of SIAM.

The one was a Chinese Comedy, which I would willingly have seen to the A chinese end, but it was adjourned, after fome Scenes, to go to Dinner. The Chinese Comedy. Comedians, whom the Siamefes do love without understanding them, do speak in the Throat. All their words are Monofyllables, and I heard them not pronounce one fingle one, but with a new breath: fome would fay that it throttles them. Their Habit was fuch as the Relations of China describe it, almost like that of the Carthusians, being class'd on the side by three or four Buckles, which reach from the Arm-pit to the Hip, with great fquare Placards before and behind, whereon were painted Dragons, and with a Gidle three Fingers broad; on which, at equal distances, were little squares, and small rounds either of Tortoise-Shell or Horn, or of some fort of Wood: And these Girdles being loose, they were run into a Buckle on each fide to fuftain them. One of the Actors who represented a Magistrate, walk'd so gravely, that he first trod upon his Heel, and then successively and slowly upon the Sole and Toes; and as he rested on the Sole, he rais'd the Heel; and when he rested on his Toes, the Sole on the Sole, he raised the Fleets and when he refred on his 10es, the Sole much'd the ground no more. On the contrary, another Actor, walking like a Madman, threw his Feet and Arms in feveral extravagant Poffures, and after a threatning manner, but much more excellive, than the whole Action of our Captains or Matamores. He was the General of an Army; and if the Relations of China are true, this Actor naturally reprefented the Affectations common to the Soldiers of his Country. The Theater had a Cloth on the bottom, and nothing on the fides, like the Stages of our Rope-dancers and Jacknudding.

The Puppers are mute at Siam, and those which come from the Country of Puppers. Laos are much more esteemed than the Siamese. Neither the one nor the other

have any thing, which is not very common in this Country.

But the Siamele Tumblers are excellent, and the Court of Siam gives the di-Rope-dancers, But the stance Allibers are executing the arrives at Louvo. Allian reports, that and other version therefore to the King, when he arrives at Louvo. Allian reports, that and other Alexander had some Indian Rope-dancers at his Wedding, and that they were fores of executing the standard had some Indian Rope-dancers at his Wedding, and that they were fores of executing the standard had some Indian Rope-dancers at his Wedding, and that they were forest of executing the standard had some Indian Rope-dancers at his wedding, and that they were forest of executing the standard had some Indian Rope-dancers at his wedding, and that they were forest of executing the standard had some Indian Rope-dancers at his wedding, and that they were forest of executing the standard had some Indian Rope-dancers at his wedding, and that they were forest of executing the standard had some Indian Rope-dancers at his wedding, and that they were forest of executing the standard had some Indian Rope-dancers at his wedding, and that they were forest of executing the standard had some Indian Rope-dancers at his wedding, and that they were forest of executing the standard had some Indian Rope-dancers at his wedding, and that they were forest of executing the standard had some Indian Rope-dancers at his wedding, and that they were forest of executing the standard had some Indian Rope-dancers at his wedding, and that they were forest of executing the standard had some Indian Rope-dancers at his wedding the standard had some Indian Rope-dancers are standard had some Indian Rope-dancers at his wedding the standard had some Indian Rope-dancers at his wedding the standard had some Indian Rope-dancers at his wedding the standard had some Indian Rope-dancers at his wedding the standard had some Indian Rope-dancers at his wedding the standard had some Indian Rope-dancers at his wedding the standard had some Indian Rope-dancers at his wedding the standard had some Indian Rope-dancers at his wedding the standard had some Indian Rope-dancers at his wedge. esteem'd more nimble than those of other Nations. These are their Actions, which it is necessary to confess I did not closely and carefully confider, because I was more attentive to the Chinese Comedy, than to all the other Shows, which were at the same time exhibited to us. They plant a Bambon in the ground, and to the end of this they join another, and to the end of this second a third, and to the end of the third a Hoop: fo that this makes as it were the wood of a round Racket, the Handle of which would be very long. A Man holding the two fides of the Hoop with his two Hands, puts his Head upon the inferior and inward part of the Hoop, raifes his Body and his Feet on high, and continues in this posture an hour, and sometimes an hour and half: then he will put a Foot where he had plac'd his Head, and without standing otherwise, and without fixing the other Foot, he will dance after their manner, that is to fay, without railing himself, but only by making Contorsions. And what renders all this more perilous and difficult, is the continual wavering of the Bambon. A Bambon dancer of this fort, they call Lot Bonang; Lot fignifies to pass, and Bouang a Hoop.

There dyed one, some Years since, who leap'd from the Hoop, supporting A Tumbles himself only by two Umbrella's, the hands of which were firmly fix'd to his honourd by on Trees or Houses, and sometimes into the River. He so exceedingly diverted sizm.

the King of Siam, that this Prince had made him a great Lord: he had lodged him in the Palace, and had given him a great Title; or, as they fay, a great Name. Others do walk and dance, after the mode of the Country, without rating themselves; but with Contorsions on a Copper-wire as big as the little Finger, and stretched after the same manner as our Rope-dancers do stretch their Rope: And they say, that the more the Wire is stretched, the more difficult it is to fland, by reason it gives a greater spring, and is so much the more uncertain. But what they account most difficult, is to get upon this Wire by the part of that same Wire which is fasten'd to the ground, and to descend thence by one of the Bambon's, which are plac'd like a Sr. Andrew's Cross to support it: as also to sit on the Wire cross-leg'd, to hold there one of those Bands, which ferves them as a Table to eat on it, and to raise themselves on their Feet. They cease not likewise to ascend and dance upon an extended Rope, but without a Counterpoife, and with Babauches or Slippers on their Feet, and with Sabret, and Buckets of water falten'd to their Legs. There are fuch who plant a very high Ladder in the ground, the two fides of which are of Bambuis, and the fteps of Sabret, the edges of which are turned upwards. He goes to the top of the Ladder and dense without configuration. this Ladder, and frands, and dances without any fupport on the edge of the sa-bre, which makes the laft frep thereof; whilf the Ladder has more motion than a Tree shaken by the wind: then he descends Head foremost, and passes nim-bly, winding between all the Sabres. I saw him descend, but observed not when he was on the highest Sabre; and I went not to examine whether the Steps were Subres: not reckoning that the Subres could be keen, except perhaps the lowest, because they are most exposed to view. I omit the rest of this matter, as little important, and because I have not sufficiently observed it to support it with my Testimony.

Tame Serpents.

The Emperor Galba being in his Prætorship, exhibited to the Roman People the fight of some Elephants dancing upon Ropes. The Elephants of Siam are not so experienc'd, and the only Animals that I know the Siameses instruct, are great Serpents, which, they fay, are very dangerous. These Animals do move themselves at the sound of the Instruments, as if they would dance. But this passes for Magic, because that always in that Country, as oftentimes in this, those who have some extraordinary Artifice, do pretend that it consists in some mysterious words-

The Siameses have also some Religious Shows. When the Waters begin to Shows: An retreat, the People returns them Thanks for feveral Nights together with a great Illumination in Illumination in the Wat they are retired, but for the Fertility which on the Wat they render to the Lands. The whole River is then feen cover'd with floating ters, and another they render to the Lands with it. There are of different Sizes, according to the there on the Lanthorns, which pass with it. There are of different Sizes, according to the Land, and in Devotion of every particular Person; the variously painted Paper, whereof the Palace. they are made, augments the agreeable effect of so many Lights. Moreover, to thank the Earth for the Harvest, they do on the first days of their Year make another magnificent Illumination. The first time we arriv'd at Lance was in the Night, and at the time of this Illumination; and we saw the Walls of the City adorned with lighted Lanthorns at equal distances; but the inside of the Palace was much more pleasant to behold. In the Walls which do make the Inclosures of the Courts, there were contrived three rows of small Niches all round, in every of which burnt a Lamp. The Windows and Doors were likewife all adorn'd with feveral Fires, and feveral great and finall Lanthorns, of different Figures, garnished with Paper, or Canvas, and differently painted, were hung up with an agreeable Symmetry on the Branches of Trees, or on

Excellent Ar- I faw no Fire-works, in which nevertheless the Chineses of Siam do excel, and they made some very curious during our residence at Siam and Louvo. At China there is also made a solemn Illumination at the beginning of their Year, and at another time another great Festival on the Water without any Illumination. The Chineses agree not in the Reasons they give thereof, but they give none upon the account of Religion, and those which they give are puerile and fabulous. We

We must not omit the Paper-Kite, in Siamese Vao, the Amusement of all the A Paper-Kite. Courts of the Indies in Winter. I know not whether it be a piece of Religion, or not; but the great Mogal, who is a Mahometan, and not an Idolater, delights himself also therein. Sometimes they fasten Fire thereunto, which in the Air appears like a Planet.

And sometimes they do there put a piece of Gold, which is for him that finds the Kite, in case the String breaks, or that the Kite falls to far diftant, that it cannot be drawn back again. That of the King of Siam is in the Air every Night for the two Winter-months, and some Man-

of the Kingdom of SIAM.

or stam is in the Air every regar for the Roberts are nominated to eafe one another in holding the String.

The Stamefer have three forts of Stage-Plays. That which they call Cone is Three forts of Figure-dance, to the Sound of the Violin, and fome other Influments. The Stage-Plays a Figure-dance, to the Sound of the Violin, and fome other Influments. Dancers are masqued and armed, and represent rather a Combat than a Dance stamples. And the every one runs into high Motions, and extravagant Postures, they cease not continually to intermix some word. Most of their Masks are hideous, and represent either monstrous Beasts, or kinds of Devils. The Show which they call Lacone, is a Poem intermixt with Epic and Dramatic, which lafts three days, from eight in the Morning till seven at Night. They are Histories in Verfe, ferious, and fung by feveral Actors always prefent, and which do only fing reciprocally. One of them fings the Hiltorian's part, and the reft those of the Perfonages which the Hiftory makes to fpeak; but they areal Mentat fing, and no Women. The Rabam is a double Dance of Men and Women, which is not Martial, but Gallant; and they prefented unto us the Divertion thereof with the others, which I have before mentioned. Thefe Dancers, both Men and Women, have all falle Nails, and very long ones, of Copper: They fing some words in their dancing, and they can perform it without much tyring themselves, because their way of dancing is a simple march round, very flow, and without any high motion; but with a great many flow Contorfions of the Body and Arms, so they hold not one another. Mean while two Men entertain the Spectators with several Fooleries, which the one utters in the name of all the Men-dancers, and the other in the name of all the Women dancers. All these Actors have nothing fingular in their Habits: only those that dance in the Rabam, and Cone, have gilded Paper Bonnets, high and pointed, like the Mandarius Caps of Geremony, but which hang down at the fides below their Ears, and which are adorned with counterfeit Stones, and with two Pendants of gilded wood.

The Cone and the Raham are always call'd at Funerals, and sometimes on other occasions; and 'tis probable that these Shows contain nothing Religious, fince the Talapoins are prohibited to be prefeit there-at. The Lacone ferves principally to folemnize the Feaft of the Dedication of a new Temple, when a new Statue of their Sommona-Codum is placed therein.

This Festival is likewise accompany'd with races of Oxen, and several other Wrestling 2400 Diversions, as of Wrettlers, and Men that fight with their Elbow and Fift. In Boxing Boxing, they guard their Hand with three or four rounds of Cord instead of

the Copper Rings, which those of Last doule in such Combats.

The Running of Oxen is performed in this manner. They mark out a Plat A Race of 500 Fathom in length, and two in breadth, with four Trunks, which are Oxen. planted at the four Corners, to serve as Boundaries; and it is round these Limits that the Coutse is run. In the middle of this place they erect a Scaffold for the Judges: and the more precisely to mark out the middle, which is the place from whence the Oxen were to ftart, they do plant a very high Poft againft the Scaffold. Sometimes its only a fingle Ox which runs againft another, the one and the other being guided by two Men running afoot, which do hold the Reins, or rather the String put into their Noles, the one on the one fide, and the other on the other fide; and other Men are posted at certain distances, to ease those which run. But most frequently it is a Yoke of Oxen fasten'd to a Plough, which runs against another Yoke of Oxen joined to another Plough 3 fome Men guide them on the right fide and on the left, as when it is only a fingle Ox which runs againft another: But befides this, it is necessary that each Plough be so well sustained in the Air by a Man running, that it never touch the ground, for fear it retard the Animals that draw it; and these Men which thus support the Ploughs, are more frequently reliev'd than the others.

Now tho the Ploughs run both after the same manner, turning always to the right round the space which I have described, they fet not out from the same place. The one starts at one side of the Scasffold, and the other at the other, to run reciprocally one after the other. Thus at the beginning of their Course they look from opposite places, and they are distant one from the other half a Circle, or half the space over which they were to run. Yet they run after the fame manner, as I have faid, turning feveral times round the four Boundaries.

which have mentioned, till the one overtakes the other. The Spectators are neverthelefs all round, yet is it not necessary to have Bars to hinder from approaching too near. These Courses are conceines the subjects of Bettings, and the Lords do breed and train up small, but well-proportion of Oxen for this Exercise; and instead of Oxen, they do likewise make use of Bussalos.

A Race of

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I know not whether I ought to rank amongst the Shows, the Diversion Throw hot whether I ought to faint amongst the shows, the Diversion which was given us of a Race of Balant; for in respect of the Siameser it is rather a Sport, than a Show. They chuse two Balant the most equal in all things as is possible, and they divide themselves into two Parties to bett. Then the Captains do beat a precipitate measure, not only by knocking with the end of a long Bambou which they have in their hands, but by their Cryes, and the a long bandou which they have in their names, but by their cryes, and the Agitation of their whole Body. The Crew of Rowers excites itielf also by feveral redoubled Acclamations, and the Spectator which betts, hollows'also, and is in no less motion than if he really rowed. Oftentimes they commit not to the Captains the care of animating the Rowers, but two of the Bettors do execute this Office themselves.

The Siameles love Gaming to such an Excess as to ruine themselves, and lose love of Ga- their Liberty, or that of their Children: for in this Country, whoever has not their Liberty, or that of their Children: for in this Country, whoever has not wherewith to fatisfy his Creditor, fells his Children to difcharge the Debt; and if this fatisfies not, he himself becomes a Slave. The Play which they love beft, is Tick-Tack, which they call Saca, and which they have learnt perhaps from the Portuguée; for they play it like them and us. They play not at Cards, and their other hazardous Sports I know not; but they play at Cheffe after our and the Chinde way. At the end of this Work I will insert the Game of Cheffe of the Chinde Cheffe of the Chinefes,

Tobacco-Smoke (for they take none in Snush ) is also one of their greatest love to smoke pleasures, and the Women, even the most considerable, are entirely addicted thereunto. They have Tobacco from Manille, China, and Siam; and tho' these forts of Tobacco are very strong, the Siamefes do smoke it without any weakning it; but the Chineses and Moors do draw the Smoke through water, to diminish the strength thereof. The method of the Chineses is, to take a little water into their mouth, and then proceed to fill their mouth with Tobacco-Smoke, and afterwards they foit out the water and the Smoke at the same time. The you will find at the end of this Work.

Such are the Diversions of the Siameses, to which may be added the Domestic. They love their Wives and Children exceedingly, and it appears that they are greatly beloved by them Whilst the Men acquit themselves of the fix months work, which they every one yearly owe to the Prince, it belongs to their Wife, their Mother, or their Children to maintain them. And when they have fatisfy'd the Service of their King, and they are return'd home, the generality know not the Service of their Aing, and they are returned nome, the generality above not unto what bufiness to apply themselves, being little accustomed to any particular Profession; by reason the Prince employs them indifferently to all, as it pleases the him. Hence it may be judged how lazy the ordinary life of a Siames is. He works not at all, when he works not for his King: he walks not abroad; he hunts not a anywhen it was not at a manning to waits and a manning that hunts not he does nothing almost but continue fitting or lying, eating, playing, fmoking and fleeping. His Wife will wake him at 7 a clock in the morning, and will ferve him with Rice and Fish. He will fall afleep again hereupon; and at Noon he will eat again, and will sup at the end of the day. Between these two last Meals will be his day; Conversation or Play will spend all the rest. The Women plough the Land, they sell and buy in the Cities. But it is time to speak of the Affairs and serious Occupations of the Siameses, that is to say of their Marriages, of the Education they give to their Children, of the Studies and Profeftions to which they apply themselves.

#### CHAP. VII.

### Concerning the Marriage and Divorce of the Siameses.

'T Is not the Custom in this Country to permit unto Maids the Conversation The care they of young men. The Mothers chastlife them, when they surprize them so have of keep-order to the most of the most of the most of the second to the most of the most of the second to the most of the second to the most of the second to the second t but the Girls forbear not to get out, when they can; and this is not impossible Daughters.

towards the Evening.

They are capable of having children at twelve years of Age, and fometimes At what Age. fooner; and the greatest part have none past forty. The Custom is therefore to they marry marry them very young, and the Boys in proportion. Yet there is found fome them.

Stameles, who dildain Marriage all their life, but there is not any that can turn Talapoinesse, that is to say, consecrate her self to a Religious life, who is not ad-

vanc'd in years.

Part II.

When a Marriage is delign'd, the Parents of the young man demand the Maid How a Siaof her Parents, by women advanced in years and of good Reputation. If the mife feeks a Parents of the Maid have any inclination thereunto, they return a favourable Maid in Marients of the Maid have any inclination thereunto, they return a favourable maid in Marients of the Maid have any inclination thereunto, they return a favourable maid in Marients of the Maid have any inclination thereunto, they return a favourable maid in Marients of the Maid have any inclination thereunto. Answer. Nevertheless they referve unto themselves the liberty of consulting the Martiage fifther mind of their Daughter; and at the same time they take the hour of the scondaded young mans Nativity, and give that of the Birth of the Maid: and both sides young than reactive to know principally whether the Party proposed is rich, and whether the Marriage will continue till death without a divorce. As every one carefully conceals his riches, to fecure them from the oppression of the Magiftrate, and the Covetuousness of the Prince, it is necessary that they go to the Southsayer, to know whether a Family is rich, and it is upon the advice of the Southsayers that they take their Resolution. If the Marriage must be concluded, the young man goes to visit the Lady three times, and carries her some presents of Bestel and Fruit, and nothing more precious. At the third Vifit the Relations on both fides appear there likewife, and they count the Portion of the Bride, and what is given to the Bridegroom to whom the whole is delivered upon the fpot, and in prefence of the Relations, but without any writing. The new married couple do also commonly receive on this occasion some presents from their Uncles: and from that time, and without any Religious Ceremony, the Bridegroom has a right to confummate the Marriage. The Talagoins are prohibited to be present thereat. Only some days after they go to the house of the New Married folks to sprinkle some Holy-water, and to repeat some Prayers in the Baly-Tongue.

The Wedding as in all other places, is attended with Feafts and shows. They The Noptial do hire and invite profest Dancers thereunto; but neither the Bridegroom, nor Feast. the Bride, nor any of the Guests do dance. The Feast is made at the house of the Brides Relations, where the Bridegroom takes care to build an Hall on purpole, which stands alone: And from thence the new married persons are conducted into another fingle Building, built also on purpose, at the expense and care of the Bridegroom, in the Inclosure of Bambon, which makes the Inclosure of the House of the Brides Relations. The new married persons continue there for the route of the bines relations. The new matter periods confiding there for Months, and then go to fettle where it pleases them best to build an House for themselves. A singular Ornament for the Daughters of the Mandarins which are married, is to put on their head that Circle of Gold, which the Mandarins put on their Bonner of Ceremony. Next to this the decking consists in having put on their Bonner of Ceremony. finer Pagnes then ordinary, more excellent Pendants, and more curious Rings ther Pagnes then ordinary, more excellent Pendants, and more curious Rings on their Fingers, and in greater quantity. Some there are who report that the pretended father-in-Law, before the conclusion of the Marriage of his Daughter with his Son-in-Law, keeps him fix Months in his house, to know him better. Some absolutely deny that this is true. And all that, in my opinion, may have given occasion to the report, is that it belongs to the Bridegroom to build the Wedding Room, and House, which he is to have at his Fagnerican description.

ther-in-Law's, during which, that is to fay for two or three days at most, his future Spoule brings him Food, without dreading the Confequences thereof, because the Marriage is already concluded, altho the Feast be deferred.

The greatest Portion at Siam is an hundred Catis, which do make 15000

of the Mar Livres; and because it is common that the Bridegroom's Estate equals the Porriages at Siam tion of the Bride, it follows that at Siam the greatest Fortune of two new married Perfons exceeds not 10000 Crowns.

Of Plurality of Wives.

The Stameler may have feveral Wives, the they think it would be best to have but one; and it is only the Rich that affect to have more, and that more out of Pomp and Grandeur, than out of Debauchery.

A confidera-

When they have feveral Wives, there is always one that is the chief: they ble diffinction call her the great Wife. The others, which they call the leffer Wives, are indeed legitimate, I mean permitted by the Laws, but they are subject to the Principal. They are only purchas'd Wives, and consequently Slaves; so that the Children of the little Wives do call their Father Po Tchaon, that is to say ther Lord, whereas the Children of the principal Wife do call him fimply Po,

Marriage in the first degrees of Kindred is prohibited them, yet they may marry their Cousin German. And as to the degrees of Alliance, a Man may promoted, and how the marry two Sifters one after the other, and not at the fame time. Nevertheless and now the Kings of Siam do dispense with these Rules, and do think it hardly possible kings of stam the kings of stam to dispense with their Ruiss, and to finink it fining pointoile with to find a Wife worthy of them, but in perfons that are nearly related to them this article.

The prefent King married his Sifter, and by this Marriage was born the Princes his only Daughter, whom it is faid he has married. I could not find out the truth, but this is the common Report: And I think it probable, in that her House is erected as unto a Queen; and the Europeans who have call'd her the Princess Queen, have made the same judgment thereof with me. The Relations inform us, that in other places as well as at Siam, there are some Examples of these Marriages of the Brother with the Sister; and it is certain that they have been anciently frequent amongst a great many Pagan Nations, at least in the Royal Families: either to the end that the Daughter might successful for the control of the con thus Jupiter Kings have had of misplacing their Alliances, if they married not their own had married Sifters. For as to what others add, that it is to the end that the People may not doubt of having a Soveraign of the Royal Blood, at leaft by his Mother, I find no probability therein as to the Eaft, where the People are fol little weedded to the Blood of their Kings, and where the Kings do think to affure themselves of the Fidelity of their Wives, by keeping them very closely.

The Laws of The Succession in particular Families is all for the great Wise, and then for Succession for the Children, who inherit from their Parents by equal Portions. The little Wishows and her Children, who inherit from their Parents by equal Portions. Widows and Wives and their Children may be fold by the Heir; and they have only what the Heir gives them, or what the Father before his death has given them from hand to hand, for the Stanefer know not the use of Wills. The Daughters born of the little Wives, are fold to be themselves little Wives; and the most powerful purchasing the handsomest, without having any regard to the Parents from whom they descend, do after this manner make very unequal Alliances: and those with whom they make them, do not thereby acquire any more Honour or Protection.

Wherein con- The Estate of the Siameses consist chiesly in Moveables. If they have Lands, fifs the Forthey have not much, by reason they cannot obtain the full Property thereof: It tine of a Sia- belongs always to their King, who at his pleasure takes away the Lands which he has fold to particular persons, and who frequently takes them again without returning the value. Nevertheles the Law of the Country is, that Lands should be hereditary in Families, and that particular persons may sell them one to another: But this Prince has regard only to this Law, as far as it suits him, because it cannot prejudice his Demesnes, which generally extend over all that his Subjects posses. This is the Reason that they get as few Immoveables as they can, and that they always endeavor to conceal their Moveables from the knowledge of their Kings: and because that Diamonds are Moveables the most easie to hide and transport, they are mightily fought after at Siam, and in all India, and they fell them very dear. Sometimes the Indian Lords do at their death give part of their Estate to the King their Master, to secure the rest to their Family,

and this generally nuccess.

The Families are almost all happy at *Siam*, as may be judged by the Fidelity A Diverce, of the Wives in nourishing their Husband, whilst he ferves the King: A Service which by a kind of Oppression lasts not only fix Months in a Year, but fometimes one, two, and three Years together. But when the Husband and white cannot support one another, they have the remedy of Divorce. 'Tis true that it is in practice only amongst the Populace; the Rich who have several Wives, do equally keep those they love not, and those they love.

The Husband is naturally the Master of the Divorce, but he never resultent what are the it to bis Wise, when the absolute is defined in the Invoice when the absolute is the Invoice when the Invoice when the absolute is the Invoice when the absolute is the Invoice when the absolute is the Invoice when th

it to his Wife, when the abfolutely defires it. He reflores her Portion to her, Laws thereof, and their Children are divided amongst them in this manner. The Mother has the first, the third, the fifth, and so all the odd ones. The Father has the second, fourth, fixth, and all the even ones. Hence it happens, that if there is no more than one Child, it is for the Mother; and that if the number of Children is unequal, the Mother has one more: whether that they judge the Mother would take more care thereof, than the Father; or that having born them in her womb, or nourished them with her milk, she feems to have a greater Right therein, than the Father; or that being weaker, she has more need of the succor of her Children than he.

After the Divorce, it is lawful for the Husband and Wife to marry again and the Conwith whom they please; and it is free for the Woman to do it in the very day sequences. of the Divorce, they not troubling themselves with the Doubt that may thence arife touching the Father of the first Child, that may be born after the second Marriage. They rely on what the Wife says thereof; a great sign of the little Jealousie of this People. But tho' the Divorce be permitted them, yet they consider it as a very great Evil, and as the almost certain Ruine of the Children, which are ordinarily very ill treated in the fecond Marriages of their Parents. So that this is one of the Caufes affigued why the Country is not populous; altho' the Siamefes are fruitful, and do very frequently bring Twins.

lous; altho the Stamefes are fruitful, and do very frequently bring Twins.

The power of the Husband is despotical in his Family, even to the selling of the Paterhis Children and Wives, his principal Wife excepted, whom he can only reput and Power diate. The Widows inherit the power of their Husbands, with this restriction, that they cannot fell the Children which they have of the even number, if the Father's Relations oppose it; for the Children date not. After the Divorce, the Father and Mother may each sell the Children which sell to them by lot, according to the Division I have mentioned. But the Patents cannot still their collidren par the Husband his Wives, by reason that in general all Murdon is Children, nor the Husband his Wives, by reason that in general all Murder is

prohibited at Siam.

Part II.

The Love of free persons is not ignominious, at least amongst the Populace : Amorous Con-It is there look'd upon as a Marriage, and Incontinency as a Divorce. Never vertations thelefs the Parents do carefully watch their Daughters, as I have faid; and Children are no where permitted to dipose of themselves to the prejudice of the paternal Power, which is the most natural of all Laws. Moreover, the the paternal Power, which is the most natural of all Laws. Moreover, the simmes are naturally too proud easily to give themselves to Foreigners, or at least to invite them. The Pequin which are at Siam, as being Strangers themselves, do more highly esteem of Foreigners; and do pass for debauched perfors in the minds of those who understand not that they seek a Husband. Thus they continue faithful until they are abandon'd; and if they prove big with Child, they are not less esteemed amongst those of their Nation, and they do green allow in baning bad a white Man for a Husband. It may be also that they are they have a second and they do green allow in baning bad a white Man for a Husband. It may be also that they even glory in having had a white Man for a Husband. It may be also that they are of a more amorous Complexion than the Stamefer 5, they have at least more spirit and briskness. 'Tis an established opinion in the Indies, that the people have more or less vigor and spirit, according as they are nearer, or remoter from

#### CHAP. VIII.

Of the Education of the Siamese Children, and first of their Civility.

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The love of THE Siamele Children have docility and sweetness, provided they be not the Siamele Children for Line Parents know how to make themselves extreamthe Stanele discountenance. I near ratems and more accounting the Children for ly beloved and respected, and to inspire an extream Civility in them. Their Children for ly beloved and respected, and to inspire an extream Civility in them. Their their Parents. Instructions are marvellously affished by the Despotic Power, which I have said they have in their Family; but the Parents do allo answer unto the Prince for the Faults of their Children. They share in their Chastisements, and more especially are obliged to deliver them up when they have offended. And tho the Son be fled, he never fails to return and furrender himself, when the Prince apprehends his Father, or his Mother, or his other collateral Relations, but older than himself, and to whom he owes Respect: And this is a great proof of the love of the Siamese Children to their Parents.

Civility neces- As to Civility, it is so great throughout the East, even amongst Strangers, that fary to the simules.

an European who has lived there a long time, finds much difficulty to re-accultom himself to the Familiarities of these Countries. The Indian Princes being very much given to Traffic, they love to invite Strangers amongst them, and they protect them even against their own Subjects. And hence it is that the Siameses do for Example appear savage, and that they eschew the Conversation of Strangers. They know that they are thought always to be in the wrong, and that they are always punish'd in the Quarrels they have with them. The Siamefes do therefore educate their Children in an extream Modesty, by reason that it is necessary in Trade, and much more in the Service, which for fix Months in the Year they render unto the King, or to the Mandarins by order of their King.

Their Inclina-

Silence is not greater amongst the Carthusians, than it is in the Palace of this tion to Si- Prince; the Lords dispense not therewith more than others. The sole defire of speaking, never excites the Siameses to say any thing that may displease. 'Tis necessary that they be thoroughly convinced that you would know the truth of any thing, to embolden them to declare it against your opinion. They do in nothing affect to appear better instructed than you, not in the things of their

own Country, altho you be a Stranger.

The Raillery They appeard to me very far from all fort of Raillery, by reason they underamongst them. stand not any, perhaps thro the fault of the Interpreters. 'Tis principally in matter of Raillery, that this ancient Proverb of the Indians is verified, That things best weighed, when delivered by an Interpreter, are as a pure Spring which runs thro mud. Most fase it is to droll little with Strangers, even with those that understand our Language; because that Railleries are the last thing that they understand, and that it is easie to offend them with a Raillery which they understand not. I doubt not therefore that the Siamefes know how to jest wittily one with another. Some have affur'd me, that they do it frequently among t Equals, and even in Verse; and that as well the Women as the Men are all very readily verif therein; the most ordinary method of which is amongst them a continued Raillery, wherein emuloufly appears the briskness of the Answers and Repartees. I have observed the same thing amongst the people of

The Polite-Siamele Lan-

But when they enter into earnest, their Language is much more capable than our's, of whatever denotes Respect and Distinction. They give, for instance, certain Titles to certain Officers, as amongst us are the Titles of Excellence and Greatness. Moreover, these words I and Me, indifferent in our Language, do express themselves by several terms in the Siamese Tongue; the one of which is from the Master to the Slave, and the other from the Slave to the Master. Another is from the Man of the people to a Lord; and a fourth is us'd

amongst Equals; and some there are which are only in the mouth of Talapoins. The word Tou and He are not expressed in sewer manners. And when they speak of Women, (because that in their Tongue there is no dislinction of Genders into Masculine and Feminine) they add to the Masculine the word Nang, which in the Balie Language fignifies Young, to imply the Feminine, as if we should say for Example, Young Prince, instead of Princess. It seems that their Civility hinders them from thinking that Women can ever grow

By the same Complaisance they call them by the most precious or most agree- The Names able things of Nature, as Joung Diamond, Joung Gold, Joung Crystal, Joung Flower, of the Sissabeth Princes, the Kings Daughter, is called Nang fa, Joung Heaven; if the had mefer a Son, the would be called, as some report, Tobaou fa, Lord of Heaven. This certain that the white Elephane which Man declaration for a Sissabeth Vision factor of the second states. tain that the white Elephant which Mr. de Chaumont faw at Siam, and which was dead when we arriv'd there, had attain'd to an extream old Age; yet because it was a Female, and that they believe moreover that in the Body of white Elephants there is always a Royal Soul, they called her verbatim, Nang Paya Tchang penac, young Prince white Elephant.

Pana I chang penae, young Prince winte Elephani.

The words which the Stamefer use by way of Salute, are cavai Tchaon, I The words which the Stamefer use by way of Salute, are cavai Tchaon, I The words the which the fallate Lord. And, if its really a Lord that falutes an Inferior, he will bluntly stamefer use fallate Lord. And, if its really a Lord that falutes an Inferior, he will bluntly stamefer use answer, Raon vai, I sainte, or ca vai, which fignifies the same thing; altho' the in saluting. word ca, which fignifies me, ought to be naturally only in the mouth of a Slave speaking to his Master; and that the word Raon, which also signifies me, denotes fome dignity in him that speaks. To ask, How do you? they say, Tgion de? Kindi? That is to say, Do you continue well? Do you eat well?

But it is a fingular Observation, that it is not permitted a Siamese to ask his How they are But it is a lingular Oblervation, that it is not permitted a samele to ask inspermitted to Inferior any News concerning their Kings health 3 as if it was a Crime in him, ask News of that approaches near the perion of the Prince, to be less informed thereof, than their King's another that is obliged to keep at a greater distance. Their civil posture of Sitting is as the Spaniards sit, crossing their Legs; and How they sit.

they are so well accustom'd thereunto, that, even on a Seat when given them,

they place themselves no otherwise.

Part II.

When they bow, they do not stand; but if they fit not cross-legid, they Their Posturei bow themselves out of respect to one another. The Slaves and the Servants before their Matters, and the common People before the Lords keep on their knees, with their Body feated on their heels, their head a little inclind, and their hands joined at the top of their forehead. A Siamese which passeth by another, to whom he would render Respect, will pass by stooping with joined hands more or less elevated, and will falute him no otherwise.

In their Visits, if it is a very inferior person that makes it, he enters stooping in-Their Cerein their vints, it is a very interior perior that makes right energy monies in to the Chamber, he profitates himself, and remains upon his knees, and fitting monies in upon his heels after the manner that I have described; but he dares not to speak first. He must wait till he to whom he pays the Visit, speaks to him: and thus the Mandarius that came to visit us on the behalf of the King of Siam, waited always till I spake to them first. If it is a Visit amongst Equals, or if the Superior goes to see the Inferior, the Master of the House receives him at the Hall-door, and at the end of the Visit he accompanies him thither, and never any further. Moreover, he walks either upright, or stooping, according to the degree of Respect which he owes to the Visitor. He likewise observes to speak first, or last, according as he can, or as he ought; but he always offers his place to him whom he receives at his House, and invites him to accept it. He afterwards ferves him with Fruit and Preserves, and sometimes with Rice and Fish; and more especially he with his own hand presents him with Arek and Betel, and Tea. The common People forget not Arek, and Persons of Quality do sometimes accommodate themselves therewith. At the end of the Visit, the Stranger first testifies that he will go; as amongst us, and the Master of the House consents thereto with very obliging Expressions, and he must be greatly To what de superior to him that renders him the Visit, to bid him depart.

The highest place is so far the most honourable according to them, that they else used not to go into the first Story, even for the ferries of the them, that they the place is dared not to go into the first Story, even for the service of the House, when the nourable.

Kings Ambaffadors were in the lower Hall. In the Houles, which ftrangers do build of Brick above one flory, they observe that the undermost part of the Stains never ferves for a paffage, for fear left any one should go under the feet of another that afcends: but the Stamefer build no more than one flory, by reason that the bottom would be useless to them, no person amongst them being willing either to go or lodge under the feet of another. For this realion, though the Stamele Houles be erected on Piles, they never make use of the under part, not so much as in the Kings House, whose Palace being uneven, has fome pieces higher than others, the under part of which might be inhabited. I remember that when the Ambassadors of Stam came to an Inn near Vincemes, the first Ambassador being lodged in the first story, and the others in the second, the fecond Ambaffador perceiving that he was above the King his Maflers Letter, which the first Ambassador had with him, ran hastily out of his Chamber bewailing his offence, and tearing his hair in defpair.

At Siam the right hand is more honourable than the left: the floor of the han more to- Chamber opposite to the door is more honourable than the fides, and the fides mourable then more than the wall where the coor is, and the wall which is on the right hand the left at \$i = 6 \text{ him they firs on the floor.} is more honourable than that which is on his left of him that fits on the floor, is more honourable than that which is on his left hand. Thus in the Tribunals, no person sits on the Bench fixed to the wall which is directly opposite to the door, save the President, who alone has a determinative Vote. The Councellors, who only have a Confultative Vote, are feated on other lower Benches along the fide-walls, and the other Officers along the wall of the door. After the fame manner, if any one receives an important vilit, he places the Vilitor alone on the floor of the Chamber, and feats himself with his back towards the door, or towards one of the sides of the

Why the Cities at China are all after one Model.

These Ceremonies and a great many others are so precise at China, that it is necessary that the Entries of the Houses, and the Rooms where particular perfons receive their Vifits, and those where they entertain their Friends, be all after one model, to be able to observe the same Civilities. But this Uniformity of building, and of turning the buildings to the South, fo that they front the North in their entering in, has been much more indiffernible in the Tribunals, and in all the other publick houfes; infomuch that whoever fees one City in this great Kingdom fees them all.

Now Ceremonies are as effential, and almost as numerous at Siam as at China. of the Stangles A Mandarin carries himself one way before his Inferiors, and another way before in their Cere his Superiors. If there are feveral Siamefes together, and there unexpectedly monies. comes in another, it frequently happens that the posture of all changes. They know before whom, and to what degree, they must keep themselves inclined or ftrait, or fitting: whether they must joyn their hands or not, and keep them high, or low: whether being feated they may advance one Foot, or both, or whether they must keep them both conceal'd by fitting on their heels. And the miscarriages in these forts of duties may be punished with the cudgel by him to whom they are committed or by his orders, and on the foot. So that there is not introduced amongft them thole Airs of familiarity, which in diversions do attract rudeness, injuries, blows and quarrels, and sometimes intemperance and impudence: they are always reftrained by reciprocal respects. What some report concerning the Chinese Hat, is a thing very pleasant. It has no brim before nor behind, but only at the sides: and this brim, which terminates in an oval, is fo little fastened to the body of the Hat, that it slaps, and renders a man ridiculous, at the leaft irregular motion which he makes of his head. Thus these people have imagined, that the lefs men are at eafe, the fewer faults they com-

They are acrustomed

But all these forms, which feem to us very trouble form, appear not so to them, by reason they are early accustomed thereunto. Custom renders the distinctions less severe to them, than they would be to us: and much more the thoughts that they may enjoy it in their turn: He that is Superior or Inferior to day, changing his condition to morrow, according to the Prudence, or the Capricious Humor of the Prince. The hereditary diffinctions which the Birth does here give to fo many perfons who are fometimes without merit, will not appear lefs hard to undergo, to him who should not be thereto accustomed, or who should not comprehend that the most precious recompence of Vertue is that, which one hopes to transmit to his posterity.

The Custom is therefore at Siam and China, that when the Superior would How the great

The Culton is therefore at Siam and Conna, that when the Superior would men differed differeetly manage the Inferior, and teftify a great deal of confideration for him men different with these in (as it fometimes happens in the intrigues of Court) the Superior affects publickly their Inferiors. to avoid the meeting the Inferior; to spare him the publick submissions, with which he could not dispense if they should meet him. Moreover, affability towards Inferiors. Eafiness of access, or going before them, do pass for weakness

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The Siameles constrain not themselves to belching in conversation, neither Certain things turn they afide their face, or put any thing before their mouth, no more than mongft us are the Spaniards. Tis no incivility amongst them to wipe off the Sweat of their not fo amongst forehead with their Fingers, and then to shake them against the ground. For them, and on this purpose we use a Handkercheif, and few of the Siameses have any: which the contrary. is the reason why they very flowenly perform every thing whereunto the Handkercheif is necessary. They dare to spir neither on the Mats, nor the Carpets; and because they are in all houses a little furnished, they make use of spirting-pots which they carry in their hand. In the Kings Palace they neither cough, nor spir, nor wipe their Nose. The Betel which they continually chew, and the little of subtled they continually chew, and the little of subtled they for subtled to the subtles to the subtl the juice of which they fwallow at pleasure, hinders them: Nevertheless they cannot take Betel in the Prince's presence, but only continue to chew that which they have already in their Mouth. They refule nothing that is offered them, and dare not to fay, I have enough.

As the most eminent place is always amongst them the most honourable, the What is the As the most eminent place is always amongst them the most nonourable, the head, as the highest part of the body, is also the most respected. To touch front among any person on the head or the hair, or to stroke ones hand over the head, is to the siamsfer, offer him the greatest of all affronts. To touch his Bonnet, if he leaves it any where, is a great incivility. The mode of this Country amongst the Europeans which dwell there, is never to leave their Hat in a low place, but to give it to a Servant, who carries it higher than his Head, at the end of a Stick, and without touching it; and this Stick has a foot, to the end that it may fland up, if he

The most respectful, or to say better, the most humble posture, is that in What postures that carries it, be obliged to leave it. The most respectful, or to say perter, the most number portions, is that m are more or which they do all keep themselves continually before their King: in which they less respectful. express to him more respect than the Chineses do to theirs. They keep themfelves proftrate on their knees and elbows, with their hands joyned at the top of their forehead, and their body feated on their heels; to the end that they may lean less on their elbows, and that it may be possible (without affifting themselves with their hands, but keeping them still joyned to the top of their forehead) to raife themselves on their knees, and fall again upon their elbows, as they do thrice together, as often as they would speak to their King: I have remark'd, that when they are thus prostrate, they lean their back-part on one fide or other, as much as possibly they can, without displacing their knees, as it were to leffen and undervalue themselves the more.

By the fame principle, it is not only more honourable, according to them, to be feated on a high feat, than on a low feat; but it is much more honourable to be flading than fitting. When Mr. de Chaumour had his first audience, it was necessary that the French Gentlemen which accompany d him, should enter first into the Hall, and feat themselves on their heels, before the King of Siam appeared; to the end that this Prince might not fee them a moment flanding. They were prohibited to rife up to falute him, when he appeared. This Prince never fuffered the Bishops nor the Jesuits to appear standing before him in the Audiences. It is not permitted to stand in any place of the Palace, unless while walking: and if in this last Voyage of 1687, at the first audience of the Kings Ambassadors, the French Gentlemen had the honour of entring, when the Kings of Siam was already visible, it was only because the Mandarins, which had accompanied the Ambaffadors of Siam into France, were admitted into the

Gallery of Verfailles, when the King was feated on the Throne which he had erected there.

The King of Siam had that respect for the King of France, as to acquaint King of Siam him by Mr. de Chaumont, that if there was any Custom in his Court which was accommodates not in the Court of France, he would alter it; and when the King's Ambaffathe Ceremones of his dors arrived in this Country, the King of Siam affected indeed to make them a Reception different in feveral things from that which he had made to Mr. de Court, to those of the Chaumont, to conform it the more to that which he understood the King had made to his Ambassadors. He did one thing, when Mr. des Farges saluted him, which never had any Precedent at Siam: for he commanded that all the Officers of his Court should stand in his presence, as did Ms. des Farges, and the

other French Officers which accompany'd him. Why I chose Remembring therefore that Mr. de Chaumont had demanded to compliment to fpeak to him fitting, and knowing that his Ambaffadors had fpoken standing to the King of King, (an Honour which he highly esteem'd) he informed me, that he would standing that parant me the liberty to speak to him sitting or standing; and I chose to deliver all my Compliments standing: And if I could have raised my self higher, I should have received more Honour. Twas in the King of Siam, as they informed me, a mark of respect for the King's Letters, not to receive them stand-

ing, but fitting.

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To lay a thing upon one's head, which is given, or received, is at Siam, and in mele Civility. a great many other Countries, a very great mark of respect. The Spaniards, for Example, are obliged by an express Law to render this respect to the Cedules, or written Orders, which they receive from their King. The King of Siam was pleas'd to fee me put the King's Letter on my head, in delivering it to him: he cry'd out, and demanded, Where I had learnt that Civility us'd in his Country? He had lifted up to his Forehead the King's Letter, which Mr. de Chaumont deliver'd him; but understanding, by the report of his Ambassadors, that this Civility was not known in the Court of France, he omitted it, in regard of the King's Letter, which I had the Honour to deliver him.

The manner of faluting among the

When a Siamese falutes, he lifts up either both his hands join'd, or at least his right hand to the top of his forehead, as it were to put him whom he falutes on his head. As often as they take the liberty to answer to their King, they always begin again with these words, Pra ponti Tchaou-ca, co rap pra ouncan (ai claon fai cramom: That is to fay, High and Mighty Lord of me thy Slave, I defire to take thy Royal Word, and put it on my Brain, and on the top of my Head. And it is from these words Tobaou ca, which signifie Lord of me the Slave, that amongst the French is sprung up this way of speaking faire choca, to signifie Ta vai bang com, or to prostrate himself after the Siamese manner. Faire la Zombaye to the King of Siam, fignifies to prefent him a Petition, which cannot be done without performing the cocha. I know not from whence the Portugueses have borrow'd this way of speaking. If you stretch out your hand to a Siamese to take hold on his, he puts both his hands underneath yours, as to put himself entirely into your power. 'Tis an Incivility, in their opinion, to give only one hand, as also not to hold what they present you, with both their hands, and not to take with both hands what they receive from you. But let this suffice as concerning the Civility with which the Siamefes inspire their Children, altho' I have not exhaufted this Subject.

#### CHAP. IX.

### Of the Studies of the Siameses.

Hen they have educated their Children to feven or eight years old, they put them into a Convent of Talapoins, and make them affume the habit of a Talapoin: for it is a Profession which obliges not, and which is quitted at pleafure without differace. These little Talapoins are called Non: they are not Pensioners, but their Friends do daily fend them Food. Some of these Nons are of a good Family, and have one or more Slaves to wait upon them.

They are taught principally to Read, to Write, and to cast Accompt, by rea- what they fon that nothing is more necessary to Merchants, and that all the Stameses do exclaimercie Traffic. They are taught the Principles of their Morality, and the Fables of their Sommona Codom, but no Hiftory, nor Law, nor any Science. They likewise teach them the Balie Tongue, which, as I have more than once declared, is the language of their Religion, and their Laws; and few amongst them do make any progress therein, if they do not a long time adhere to the profession of the Talapoin, or if they enter not into some offices: for it is in these two Cases only that this language is useful to them.

They write the Siamese and Balie from the left hand to the right, after the The Balie and amery white the stanger and bank from the left in which they differ from Siamele Lanmoft of the other Affaire, who have ever wrote from the right to the left; and gauges commoft the Chinefe allo, who draw the line from the top to the bottom; and who the chinefe. in the camejer and, who have the first on the right hand, and the others successively towards the left. They are different also from the Chinese, in that they have not like them a Character for every word, or even for every fignification of a fingle word; to the end that the writing may have no Equivocations like the Language. The Stamele and Balle Tongues have, like ours, an Alphabet of few letters, of which are composed fyllables and words. Moreover, the Stamese Language participates greatly of the Chinese, in that it has a great deal of Accent, (for their Voice frequently rises above one fourth) and in that it confifts almost all of Monosyllables: so that it may be presumed, that if one perfectly understood it, one should find that the few words which it has of feveral fyliables, are either foreign, or composed of Monosyllables, fome of which are used only in these Compositions.

Writer are used only in these Compositions.

But the most remarkable Similitude that is between these two Languages, and The Stamese which is not found in the Balie, is that neither the one nor the other have any and Chinese Which is not found in the Balie, is that neither the one nor the other have any and Chinese Declension or Conjugation, nor perhaps Derivations, which the Balie has.

Declension or Conjugation, nor perhaps Derivations, which the Balie has.

As Languages. Decention or Conjugation, not perhaps Derivations, which the base has. As have no De for Example, the word which fignifies Content, may likewife fignifie Content-clenfions of ment; and that which fignifies Good, will fignifie Well, and Bount, according to words, the various ways of uting them. The placing alone denote: the Cafes in Batte has. Nouns, and herein their disposition is hardly different from ours. And as to the Conjugations, the Siameses have only four or five small Particles, which they put sometimes before the Verb, and sometimes after, to fignifie the Numbers, Tenses, and Moods thereof. I will insert them at the end of this Volume, with the Stamese and Balie Alphabets; and it is in this that their whole Gram-

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mar almost consists. Their Dictionary is not less simple: I mean, that their Language is not co. The Siamele pious; but the turn of their Phrase is only more various, and more difficult. Language not Pious; Out the durn of their thrane is only more various, and more difficult surgains in cold Countries, where the Imagination is cold, every thing is called by its copious, but Name; and they do there abound as much or more in words, than in things: every figura-had when one has fixed all these words in his memory, he may promise him felf to speak well. It is not the same in hot Countries, few words do there fuffice to express much by reason that the briskness of the Imagination employs them in an hundred different ways, all figurative. Take two or three Examples of the methods of speaking Stamese. Good Heart signifies Content, thus to say, If I was at Stam, I should be content, they said, If I were City Stam, me heart If I was at Stam, I pound we content; truey tatto, if I were City Stain; we nearly good much, Sii fignifies Light, and by a Metaphor Beauty; and by a fecond Metaphor, this word Sii being joined with Pak, which fignifies Month; Siipak, fignifies the Lips; as if one should say, The Light, or Beauty of the Month, Thus, The Glory of the Wood, fignifies a Flower; the Son of the Water implies in general, whatever is ingender'd in the Water without it be Fish; as Crocodiles, and all forts of aquatic Infects. And on other occasions, the word Son will only denote Smalness, as the Sons of the Weights, to fignifie small Weights, contrary to the word Mother, which in certain things they make use of to fignifie Greatness. In short, I have not seen any words in this Language that have resemblance to

60 Arithmetic.

ours, excepting those of po and me, which fignifie Father and Mother, in Chinese I proceed to Arithmetic, which after Reading and Writing, is the principal Study of the Stamefer. Their Arithmetic, like ours, hath ten Characters, with which they figure the Nought like us, and to which they give the fame Powers as we, in the same disposition, placing, like us, from the Right to the Lest, Unites, Tens, Hundreds, Thoulands, and all the other Powers of the Number Ten. The Indian Merchants are fo well vers d in casting Accompt, and their Imagination is fo clear thereupon, that it is faid they can prefently refolve very difficult Questions of Arithmetic; but I suppose likewise that they do never refolve what they cannot refolve immediately. They love not to trouble their heads, and they have no use of Algebra.

The Siameses do always calculate with a Pen; but the Chineses make use of which ferves an Instrument which resembles the Abacus, and which F. Martinius, in his Hithe chineles flory of China, intimates, that they invented about 2600 or 2700 years before for an Absen, Left China, intimates, that they invented about 2600 or 2700 years before or Compting Jelus Christ. However it be, Pignorius, in his Book de Servis, informs us, that Table. cast Accompt. I give the Description and Figure thereof at the end of this

The Studies to which we apply our felves in our Colledges, are almost absonot proper of lutely unknown to the Siamefet; and it may be doubted whether they are fit for studies of feet field. The official Chandrack the Box doubted whether they are fit Application for fuch. The effential Character of the People of Countries extreamly hot, or extreamly cold, is fluggithness of Mind and Body; with this difference, that it degenerates into Stupidity in Countries too cold, and that in Countries too hot, there is always Spirit and Imagination; but of that fort of Imagination and Spirit, which foon flaggs with the least Application.

Imagination and Laziness.

The Stander do conceive eafily and clearly, their Repartees are witty and quick, their Objections are rational. They imitate immediately, and from the first day they are tolerable good Workmen: so that one would think a little Study would render them very accomplish, either in the highest Sciences, or in the most difficult Arts; but their invincible Laziness suddenly destroys these hopes. It is no wonder therefore if they invent nothing in the Sciences which they love best, as Chymistry and Astronomy.

Poetry is Rhyme.

I have already faid that they are naturally Poets. Their Poetry, like ours; turally Poets, and that which is now used throughout the known World, confists in the number of Syllables, and in Rhyme. Some do attribute the Invention thereof to the Arabians, by reason it seems to have been they that have carried it every where. The Relations of China report, that the Chinese Poetry at present is in Rhyme; but the they speak of their ancient Poetry, of which they still have feveral Works, they declare not of what nature it was, because, in my They read the opinion, it is difficult to judge thereof: for the' the Chineses have preserved the

ancient Cha- fense of their ancient Writing, they have not preserved their ancient Language, racters in the However, I can hardly comprehend from a Language wholly confisting of Moserce Language. nofyllables, and full of accented Vowels, and compounded Dipthongs, that if the Poetry confifts not in Rhyme, it can confift in Quantity, as did the Greek and Latin Poems.

Their Genius

I could not get a Siamese Song well translated, so different is their way of thinking from ours; yet I have feen fome Pictures, as for Example, of a pleafant Garden, where a Lover invites his Mistress to come. I have also seen some Expressions, which to me appear'd full of Smootiness, and gross Immodesty; altho' this had not the same Effect in their Language. But besides Love Songs, they have likewise some Historical and Moral Songs alrogether: I have heard the Pagayeurs fing some, of which they made me to understand the sense. The Lacone which I have mentioned, is no other than a Moral and Historical Song; and some have told me, that one of the Brothers of the King of Siam compostd some Moral Poems very highly esteem'd, to which he himself set the

But if the Siameles are born Poets, they neither are born, nor do become Orators. Their Books are either Narrations of a plain Style, or some Sentences of a broken Style full of Idea's. They have no Advocates: the Parties do each declare their Cause to the Register, who, without any Rhetoric, writes down the Facts and Reasons which are told him. When they preach, they read the Balie Text of their Books, and they translate and expound it plainly in Siamele, without any Action, like our Professors, and not our Preachers.

They know how to speak to a Business, and do therein manage themselves Their Comwith a great deal of Infinuation; but as for their Compliments, they are all pliments alafter one Model, which is indeed very good; but which is the ration that in ways the the fame Ceremonies they do always fpeak almost the fame things. The King of Siam, himself has his words almost counted in his Audiences of Ceremony; and he spake to the King's Ambassadors almost the same that he had deliver'd

to Mr. de Chaumont, and before him to the late Bishop of Heliopolis.

It have not forgot that excellent Speech which the Ambassador of Siam The last made to the King at his Audience of Leave, and which alone might cause a the Ambassador Belief that the Siameses are great Orators; if we could judge of the merit of dor of Siam Belief that the Siameses are great Orators; if we could judge of the merit of dor of Siam the Original, by that of the Translation: But this is difficult, especially in two made in Languages, which have so little similitude one to the other. All that we ought France. to think thereof, is, that the main of the Delign and Thought is the Siamese Ambassadado's, and I wonder not that he has admir'd the excellent Meen, the Majestic Air, the Power, the Affability, and all the extraordinary qualities of the King. They ought to amaze him more than another, because that these Virtues are absolutely unknown in the East; and if he had day'd to declare the Truth, he would have confessed that the Flattery natural to those of his Country, had made him all his life to extol those very things where they were not, and that he saw the first Example thereof in the King. When the Mandarins came on Board our Ship to carry the first Compliment of the King of Siam to the King's Ambassadors, they took Leave of them, by testifying unto them that they demanded it unwillingly, and out of an indispensible necessity of going to fatisfie the Impatience of the King their Master, about the things which they had to relate unto him: A Thought natural and good, on which runs the whole beginning of the Ambaffador's Speech of Leave. And as to that excellent place where he ends, that their Relation of him and his Colleagues would be put into the Archives of the Kingdom of Siam; and that the King their Mafter would do him an Honour to fend him to the Princes his Allies, he was in this a lefs Orator, than Hiftorian. He render d an account of a Practice of his Country, which is not omitted in great occasions, and which is in use in other Kingdoms. One Example there is in Oforius, in the 8th Book of his History ry of Emanuel King of Portugal, where he relates how Alphonfus, the 2d Christian King of Congo, inserted into his Argives the History of his Conversion, and that of another famous Embassy which he had received from Emanuel, and how he imparted it to all the Princes his Vassals. We may therefore be assured, that the Siamefes are not Orators, and that they never have need to be fuch-Their Custom is not to make either Speech or Compliment to the Princes to whom they fend them, but to answer the things about which these Princes interrogate them. They made a Speech at this Court, to accommodate themfelves to our Customs, and to enjoy an Honour they highly valued; which was, to speak to the King, before his Majesty spake to them. This is all we can fay of their Poetry, and their Rhetoric-

fay of their Poetry, and their Anetoric.

They abbourely ignore all the parts of Philosophy, except some Principles They have a of Morality, where, as we shall see in discoursing of the Talapoins, they have in food, and no termixt Truth with Falshood. I will at the same time also demonstrate, that Theology. they have not any fort of Theology, and that we might perhaps juffifie them about the worthipping of the falle Deities whereof they are accused, by an Impiety more culpable, which is not to acknowledge any Divinity neither true

They study not the Civil Law: They learn the Laws of their Country on How they I new thoughout the Carlo and Policic, as I have faid, for want of Print-fludy their ing 3 but when they enter into any Office, they put into their hands a Copy of Laws.

I have fait for want of Print-fludy their ing 3 but when they enter into any Office, they put into their hands a Copy of Laws.

I have faither their into a printing it practifed in Spain, tho the Laws

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Laws be there in the hands of all persons, and that there are publick Schools, to teach them. As for example, in the Provisions of a Corregidor they will infert the whole Title of the Corregidors, which is in the compiling of their Ordinances and Decrees. I have likewife feen some example of this in France.

#### CHAP. X.

# What the Siameses do know in Medicine and Chymistry.

from divers Countries.

The King of MEdicine cannot merit the name of a Science amongst the Siameses. The Siam has his King of Siam's principal Physicians are Chineses; and he has also some Physicians Siameses and Peguins: and within two or three years he has admitted into this trou divers. quality Mr. Panmart, one of the French Secular Missionaries, on whom he relies more than on all his other Phylicians. The others are obliged to report daily unto him the state of this Prince's health, and to receive from his hand the Remedies which he prepares for him.

They under-

Their chief Ignorance is to know nothing in Chyrurgery, and to stand in need of the Europeans, not only for Trapans, and for all the other difficult Operations of Chyrurgery, but for simple Blood lettings. They are utterly ignorant of Anatomy: and to far from having excited their Curiofity, to discover either the Circulation of the Blood, or all the new things, that we know touching the structure of the body of Animals, that they open not the dead bodies, till after having roafted them in their Funeral folemnities, under pretence of burning them; and they open them only to feek wherewith to abuse the superstitious credulity of the people. For example, they alledge that they fometimes find in the Stomach of the dead, great pieces of fresh Pig's sleth, or of some other Animal, about eight or ten pound in weight: and they suppose that it has been put therein by some Divination, and that it is good to perform others.

They have

They trouble not themselves to have any principle of Medicine, but only a notany princis ple, but Receipts, which they have learnt from their Ancestors, and in which they never alter any thing. They have no regard to the particular symptoms of diseases: and yet they fail not to cure a great many 5 because that the natural Temperance of the Siameles preserves them from a great many evils difficult to cure. But when at last it happens that the Distemper is stronger than the Remedies, they fail not to attribute the cause thereof to Inchantment.

The Chinese

The King of Siam understanding one day that I was somewhat indisposed, Physicians are tho it was so little, that I kept not my Chamber, he had the goodness to send great Mounte- all his Physicians to me. The Chineses offer'd some Civility to the Stameses and banks. Pegnins: and then they made me fit, and fat down themselves: and after having demanded filence, for the company was numerous, they felt my pulle one after the other a long time, to make me suspect that it was not only a grimace. I had read that at China there is no School for Physicians, and that one is there admitted to exercise the profession thereof, at most by a flight examination made by a Magistrate of Justice, and not by Doctors in Physick. And I knew moreover, that the Indians are great Cheats, and the Chineles much greater fo that I had throughly refolved to get rid of these Doctors without making any experience of their Remedies. After having felt my pulse, they faid that I was a little feverish, but discerned it not at all: they added that my Stomach was out of order, and I perceived it not, save that my voice was a little weak. The acting the Chinefer return'd alone to prefent me a small Portion warm, in a China Cup cover'd and very neat. The smell of the remedy pleas'd me, and made me to drink it, and I found my self neither better nor worfe.

"Tis well known that there are Mountebanks every where, and that every when the proposed in the smaller better nor worfe."

Man who will boldly promife Health, Pleasures, Riches, Honors, and the tebanks from knowledge of Futurities, will always find Fools. But the difference that there medies, and that the Europeans do give us Drugs, which the humane Body feeks to get rid off by all manner of means: fo that we are inclined to believe that they would not thus torment a fick person, if it was not certainly very neces-

is between the Mountebanks of China and the Quacks of Europe on the account

of Medicine, is that the Chineses do abuse the sick by pleasant and enticing Re-

of the Kingdom of SIAM.

fary, house fary, when any person is sick at Siam, he begins with causing his whole body to What Remebe moulded by one that is skilful herein, who gets upon the Body of the sick dies are used person, and tramples him under his feet. 'Tis likewise reported that great belief women do thus cause themselves to be trodden under foot by a Child, to procure themselves to be delivered with less pain: for in hot Countries, though their Deliveries seem to be more easie by the natural Conformation of the women, yet they are very painful, by reason perhaps that they are preceded with less Evacuation.

Antiently the Indians apply'd no other Remedy to plenitude, than an Exceffive diet; and this is ftill the principal fubtilty of the Chinefes in Medicine. The Chineses do now make use of Blood letting, provided they may have an European Chyrurgion: and fometimes instead of Blood letting they do use Cupping glaf-

fes, Scarifications and Leeches.
They have fome Purgatives which we make use of, and others which are peculiar to them; but they know not the Hellebore, fo familiar to the Antient Greek Phylicians. Moreover they observe not any time in purging, and know not what the Crisis is : though they understand the benefit of Sweats in distempers, and do highly applaud the use of Sudorificks.

In their Remedies they do use Minerals and Simples, and the Europeans have made known the Quinquina unto them. In general all their Remedies are very hot; and they use not any inward Refreshment: but they bath themselves in Fevers, and in all forts of difeases. It seems that whatever concenters or augments the natural heat, is beneficial to them.

Their fick do nourish themselves only with boiled Rice, which they do make The Diet of extreamly liquid : the Portuguese of the Indies do call it cange. Meat-Broths are the fick side mortal at Siam, because they too much relax the Stomach: and when their Pa-meses. tients are in a condition to eat any thing folid, they give them Pigs flesh preferable to any other.

They do not understand Chymistry, although they passionately affect it; and Their Igno-They do not understand Chymlitry, and authorist they parisonately acted to the first five all amongst them do boast of possessing the most profound secrets rates in Chythereof. Siam, like all the rest of the East, is full of two forts of persons upon mistry, and thereof. Siam, like all the rest of the their fables this account, Impoltors and Fools. The late King of Siam, the Father of the about this prefent Prince, then two Millions, a great fumm for his Country, in the vain matter. refearch of the Philosophers Stone: and the Chinefes, reputed so wife, have for three or four thousand years had the folly of seeking out an Universal Remedy, by which they hope to exempt themselves from the necessity of dying. And as amongst us there are some foolish Traditions concerning some rare persons that are reported to have made Gold, or to have lived fome Ages; there are fome very strongly established amongst the Chineles, the Siamofes, and the other Orientals, concerning those that know how to render themselves immortal, either absolutely, or in such a manner, that they can die no otherwise than of a violent death. Wherefore it is supposed, that some have withdrawn themfelves from the fight of men, either to enjoy a free and peaceable Immortality, or to fecure themselves from all foreign force, which might deprive them of their life, which no diftemper could do. They relate wonders concerning the knowledge of these pretended Immortals, and it is no matter of astonishment that they think themselves capable of forcing Nature in several things, since they imagine that they have had the Art of freeing themselves from Death.

CHAP

#### CHAP. XI.

# What the Siameses do know of the Mathematics.

The great Heat of Stam, T HE quick and clear Imagination of the Stamefer should seem more pro-test of Stam, T per for the Mathematics, than the other Studies, if it did not soon weary repugnant to them; but they cannot follow a long thread of Ratiocinations, of which they all application do forefee neither the end nor the profit. And it must be confessed for their Excuse, that all application of Mind is so laborious in a Climate so hot as theirs, that the very Europeans could hardly study there, what desire soever they

might have thereunto.

The Ignorance The Siameles do therefore know nothing in Geometry or Mechanics, because of the Siame- they can be absolutely without them: And Astronomy concerns them only as far as they conceive it may be affiftant to Divination. They know only some parts of Ma- Practical part thereof, the Reasons of which they disdain to penetrate; but of which they make use in the Horoscopes of particular Persons, and in the Comthematics. position of their Almanac, which, as it were, is a general Horoscope. It appears that they have twice caused their Calendar to be reformed by

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mife Calendar, able Altronomers, who, to supply the Astronomical Tables, have taken two arand why they bitrary Epocha's, but yet remarkable for some rare Conjunction of the Planers. Having once established certain Numbers upon these Observations, they by the means of feveral Additions, Substractions, Multiplications and Divisions, have given for the following Years the fecret of finding the place of the Planets, almost as we find the Epact of every Year, by adding eleven to the Epact of the

The mest Mo-

Year foregoing.

The most Modern of the two Siamese Epocha's, is referred to the Year of Grace 638. I gave to Mr. Cassini, Director of the Observatory at Paris, the Siadent is evi. Grace 638. I gave to M. Cajim, Director of the Sun and Moon by a Calculation, the denty Arbi mefe Method of finding the place of the Sun and Moon by a Calculation, the And the fingular Merit which Mr. meje intended of minding in place of men ground of which is taken from this Epocha. And the fingular Meric which Mr. Caffini has had of unfolding a thing to difficult, and penetrating the Readons thereof, will doubtless be admired by all the Learned. Now as this Epocha is visibly the ground only of an Astronomical Calculation, and has been chosen rather than another, only because it appeard more commodious to Calculation than another, it is evident that we must thence conclude nothing which respects the Siamele History; nor imagine that the Year 638, has been more Famous amongst them than another for any Event, from which they have thought fit to begin to compute their Years, as we compute ours, from the Birth of the Saviour of the World.

The most An- By the same Reason I am persuaded, that their most Ancient Epocha, from cient also ap which in this Year 1689, they compute 2233 Years, has not been remarkable pears Arbitraat Siam for any thing worthy of Memory, and that it proves not that the Kingdom of Siam is of that Antiquity. It is purely Aftronomical, and ferves as a
Foundation to another way of calculating the places of the Planets, which
they have relinquished for that new Method which I have given to Mr. Caffini, Some person may discover to them the Mistakes, where in process of time this ancient Method must fall; as in time we have found out the Errors of the Reformation of the Calendar made by the Order of Julius Cafar.

The Historical Memoirs of the Siameses re-ascending, as I have remark'd in ken from the the beginning, to 900 Years, or thereabouts, it is not necessary to seek the Foundeath of Som- dation of their Kingdom in the 545th Year before the Birth of Jesus Christ; nor to suppose that from this time they have enjoyed a Succession of Kings, which they themselves are absolutely ignorant of. And tho the Simples do vulgarly report, that this first Epochs, from which they compute, as I have said, 2233 Years, is that of the death of their Sommona-Codom; and altho it refers almost to the time in which Psthagor.u liv'd, who has fowed in the West the Doctrine of the Metempsichosis, which he had learnt from the Egyptians, yet it is

certain that the Siamefes have not any Memoirs of the time in which their Sommona Codom might have lived : And I cannot perfuade my felf that their Sommina-Codom could be Pythagorus, who was not in the East, nor that their ancient Epocha is other than Aftronomical and Arbitrary, no more than their Modern

But if the Stamefes do ftill make use thereof in their Dates, after having re-The Variety linquilly dit in their Aftronomical Calculations, it is because that in things of their Dates. Style they do not easily alter the Usages unto which they are accustomed 3, and their Dates. yet they cease not to date sometimes with respect to that modern Epocha which they have taken, as I have faid, from the Year of our Lord 638. But their first Month is always the Moon of November or December, in which they depart not from the ancient Style, even then when they date the Year according to their new Stile; tho' the first Month of the Year, according to this new

of the Kingdom of SIAM.

Style, be the fifth or fixth of the old Style.

This, in few words, is the whole Skill of the Siameses in Astronomy More-What the Sia-

This, in few words, is the whole Skill of the Siameses in Astronomy. More. What he six over, they understand nothing of the true System of the World, because they melt do think now nothing by Reason. They believe therefore, like all the East, that the eff the System Eclipses are caused by some Dragon, which devours the Sun and Moon (perhips by reason of the Astronomer's metaphorical way of speaking, that the Eclipses are mide in the Head and Tail of the Dragon:) And they make a great noise, with Fire-shovels and Kettles, to scare and drive away this pernicious Animal, and to deliver those beauteous Planets. They believe the Earth Earth and to deliver those beauteous Planets. Four-square, and of vast Extent, on which the Arch of Heaven rests at its extremities, as if it was one of our Glafs-Bells with which we cover fome of our Plants in our Gardens. They affert, that the Earth is divided into four habitable parts of the World, to separated one from the other by Seas, that they are, as it were, four different worlds. In the middle of these four Worlds, they suppose an exceeding high Pyramidal Mountain with four equal sides, called, Caou pra Soumene (Caou signifies, a Mountain, and to Mount;) and from the Surface of the Earth, or the Sea, to the top of this Mountain, which, as they fay, touches the Stars, they compute 84000 Iods, and every Iod contains about 8000 Fathoms. They reckon as many *lods* from the Surface of the Sea to the Foundations of the Mountain 3 and they likewife reckon 84000 *lods* extent of Sea from each of the four fides of this Mountain to every of the four Worlds which I have mentioned. Now our World, which they call Tchiampion, lies, as they report, to the South of this Mountain, and the Sun, Moon and Stars do inceffantly turn round it; and it is that, which according to them, makes the Day and Night. At the top of this Mountain is a Heaven, which they call Intratiracha, which is surmounted by the Heaven of Angels. This Sample, which is all I know thereof, will suffice to demonstrate their Grossness; and if it does not exactly accord to what others have writ before me concerning this matter, we must not more admire the variety of the Siamese Opinions in a thing they understand not, than the contrariety of our Systems in Astronomy, which we pretend to understand.

The extream Superstition of the Indians is therefore a very natural Conse-The Indians The extream Supertition of the Imatan is their Excule, from People, more are Superfiguence of their profound Ignorance; but for their Excule, from People, more are Superfiguence of their profound Ignorance; but for their Excule, from People, more are Superfiguence illuminated than them, have not been left Superficiency. A superfigure ideality to the superfigure in the sup and after them the Romans, believed in Judiciary Astrology, Augurs, Presages, their extream and all forts of Arts invented under pretence of Divining and Predicting? Ignorance. They thought that it was the goodness of the Gods, to bestow on Men some Succors to penetrate Futurities; and the words Divination and Divine are the fame word in their Origine, because that according to the ancient Pagans, the Art of Divining was only an Art to consult the Deities. The Siameses are also

of opinion, that there is an Art of Prophecying, as there is one of reftoring Health to the Sick: And when the King of Sian's Soothsayers are mistaken, he causes them to be bastinado'd, not as Impostors, but as negligent persons; as he commands his Phylicians to be cudgell'd, when the Remedies they give him,

perform not the Effect which is thereby promifed.

The Authori-

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This Prince, no more than his Subjects, undertakes no Affair, nor Expedition, ty of Sooth-till his Diviners, which are all Brames or Peguins, have fix'd him an hour profieroufly to fet upon it. He stirs not out of his House, or if he be gone, he enters not again, fo long as his Diviners prohibit him. Sunday scems to him more lucky than the other days, because that in his Tongue he has preferv'd the name of the Swi's-day. He believes the Increase of the Moon more lucky than the Decreace; and befdes this,the Almanac which he causes Annually to be made by a Brame Astrologer, denotes to him and his Subjects, the lucky or unlucky days for most of the things they used to do: A Folly which is perhaps too much tolerated amongst the Christians, witness the Almanac of Milan, to which fo many perfons do now give fuch a blind Belief.

The Siamefes do take the Howlings of wild Beafts, and the Cryes of Stags and Apes, for an ill *Omen*; as feveral perfons amonget us are frightned with the Barking of the Dogs in the Night. A Serpent which croffes the way, the Thunderbolt which falls on a Houle, any thing that falls as it were of ittelf, and without any apparent Cause, are Subjects of dread to the Siameses, and the reafons of laying afide or fetting upon an Affair, how important and prelling foever it be. One of the ways they make use of to foretel things to come, and which is common to all the Orientals, is to perform some superfittious Ceremonies, then to go into the City, and to take for an Oracle about what they defire to know, the first words which they hear accidentally spoken in the Streets, or in the Houses. I could learn no more thereof, by reason that the Christian Interpreters, which I made use of, look'd upon these things with Horror, as Witchcraft and Compacts with the Damon, altho' it be very possible that they are only Fooleries full of Credulity and Ignorance. The ancient Francs, by a like Supy roojeries uni or Creatinty and quorance. The attention rounding in the perfittion, confulled in their Wars the first words which they heard sung in the Church, at their entring thereinto. At this very day several persons have a Superstitious Belief in certain Herbs which they gather the Evening of St. John, from whence is rifen this Proverb, To use or employ all the Herbs of St. John, that is, the utmost skill in an Affair: And amongst the Indians, there are some, that the business will be the start with the start of the start when the start of the start who, after having wash'd their Feet in Wine on St. John's Eve, do throw the Wine out at Window, and fo ftand afterwards to hear those that pass along the Street, taking for a certain Augury on what they defire to know, the first word they hear spoken.

The Indians accused of Sorcery, and

But that which has rais'd the Reputation of great Sorcerers amongst the Indians, is principally the continual Conjurations which they ule to drive away the evil Spirits with, and attract the good. They pretend to have some Talifmans, or Characters which they call Cata, to accomplish whatever they please; as to kill, or to render invulnerable; and to impose Silence on Persons and Dogs, when they would commit a wicked Action, and not be discovered. If they prepare a Medicine, they will fasten to the brim of the Vessel several Papers, wherein they will write some mysterious words, to hinder the Petpositons from carrying away the vertue of the Remedy with the steem. These Petpositons tons are in their Opinion fome Spirits diffused in the Air, of whom they believe, amongst other things, that they do first enjoy all the Maidens; and that they do them that pretended hurt, which is renewed every Month. In a Storm at Sea, they will fasten to all the Tackle such like written Papers, which they believe proper to assuage the Winds.

The superstitions which they use towards Women in Child-bed, appear not less ridiculous, although they be founded perhaps on some benefit for health. They believe that Women in Child-bed have need of being purified: whether that the Jews, spread throughout the Earth, have sowed this Tradition amongst several Nations, or that the people of hot Countries are more easily prejudiced than those of cold Countries with the natural impurities of Women. The Siameses keep the Women in Child bed before a continual and great fire for a month, where they turn them fometimes on one fide, fometimes on the other. The fmoak does greatly incommode them, and paffes flowly through an Aperture, which they make in the roof of their houses. The Pequins do put their Wives on a kind of Bambou-grate, very nigh, with fire underneath; but

they keep them thus no more than four or five days. At the up-rifing, the one and the other return thanks to the Fire for having purified their Wives; and in the Entertainment which they give on this occasion to their Friends, they ear nothing which they have not first offered to the Fire, leaving it fone time near it. During the whole time of lying in Child-bed, the Women neither eat nor drink any thing that is not hot: and I understand that our Midwiver, foroid their Women also to drink any thing cold.

Part II.

But the most speedy and most sensible effects of the pretended Divinations Philires of the Indians are in the use of certain Philtres, which are only natural drinks, looked upon.

The Indies do produce fome Simples, the kinds, force, or use of which we understand not. The Amorous Philtres, or Love-potions, are those which debilitate the Imagination, and make a Man to become a Child; so that after this it is easie to govern him. My domesticks affur'd me that they had seen a man at Batavia, of whom it was reported that his wife had render'd him fendeless after this manner. Other drinks do cause other effects. The Relations are full of those which the women of Goa frequently give their Husbands; and which render them so stupid for 24 hours, that they can then be unfaithful to them in their presence. Opium, or the quintessence of Poppies, causes such different esfects, that it procures fleep, or watchfulness, as it is variously prepared. The Indian going to Battel, do take thereof to infpire them with courage, or rather with fury. They then run headlong upon the Enemy like wild Boars: It is dangerous to attend them, but one may avoid them by turning out of the way, for they go forwards. Moreover, the effect of Opium lasts only some hours, after which they relapse not only into their natural cowardice, but into a faintness, which leaves them but little action for their defence. And such were those Macassers, which had conspired against the King of Siam, some months before the Kings Ambaffadors arrived there.

The Siameses have likewise some Distempers, the symptoms of which are Distempers ometimes fo strange, that they think the cause thereof can be attributed only considered as to Witchcraft. But besides these extraordinary cases, their Physicians do al-Magick. most continually accuse the greater Energy of the Spirits, with the inefficaciousness of their Remedies; and they do herein play such subtile juggling tricks, or rather they deal with persons so credulous, that whilst we were at Stam, they made a fick man believe, that he had voided a Deers skin with a Medicine, and that he must have swallowed this Deers skin by a Magical effect, and without perceiving it. This is what I judged necessary to relate concerning the Siameses Superfitions, of which every one may judge as he pleases: for if on the one hand I have feen nothing which obliges me to accuse them of Sorcery, on the other

hand I am not concern'd to justifie them entirely.

But before we quit this subject I will here add one thing, which may be at-But before we quit this inoject I will here and one day when the King's or Vanity tributed at your pleafure, to Superfiction or Vanity: One day when the King's or Vanity touching the Ambaffadors were faluted by the real or supposed Ambaffadors, from Patana, walls of Camboya, and some other neighbouring Courts, the Ambassadors of some of the cities. feveral Nations which are at Siam, were also at this Visit: and among therest there were two, who faid that the City of their Origine, the name of which I have forgot, remained no more: but that it had been so considerable, that it was impossible to go round it in three Months. I smil'd thereat as at a groundless folly : and in a few days after Mr. de la Mare the Ingineer, whom Mr. de Chanmost had left at Siam, informed me, that when by the King of Siam's order he had been at *Ligor* to take the draught thereof, the Governour would not permit him to go round it under two days, though he could have done it in lefs than an hour. Let us proceed to the fludy of the last part of the Mathematicks.

CHAP

Part II.

#### CHAP. XII.

# Concerning Musick, and the Exercises of the Body.

The Stampfes Musick is not better understood at Stam, than Geometry and Astronomy.

They make Airs by Fancy, and know not how to prick them by Notes. They have neither Cadence, nor quaver no more than the Castilians: but they fometimes fing like us without words, which the Castilians think very strange; and in the flead of words, they only fay noi, noi, as we do fay lan-la-lari. I have not remark'd one fingle Air, whose measure was triple, whereas those are wishout comparison the most familiar to the Spaniards. The King of Siam, without thewing himself, heard several Airs of our Opera on the Violin, and it was told us that he did not think them of a movement grave enough: Nevertheless the Siameses have nothing very grave in their Songs; and whatever they

play on their Instruments, even in their Kings march, is very brisk.

They have not They understand not more than the Chineses the diversity of Parts in composeveral parts serious, they understand not the Variety of the Parts; they do all sing Unisons, in their Conin their Con-forts.

Hinon; they uncertaine not the validated in the thought that those, where-forts in there appears any knowledge of Musick, have them brought from other

Their InfruThey have very ugly little Rebecks or Violins with three ftrings, which they measure Recall Tro, and fome very shrill Hoboys which they call Pi, and the Spaniard
for Certain beck, Hoboy, Chirimias. They play not ill, and accompany them with the noise of certain copper Basons, on each of which a man strikes a blow with a short slick, at certain times \* in each measure. These Basons are hung up by a string, each has a Pole laid a-cross upon two upright Forks: the one is called Schoungschang, and it is thinner, broader, and of a graver found than the other, which they call

\* The Ear beatingthe Time.

Cong. To this they add two forts of Drum, the Thompson pan, and the Tapon. The The Thunpoun wood of the Thompsumpan is about the fize of our Timbrels, but it is cover'd with skin on both fides like a true Drum, and on each fide of the wood hangs a leaden ball to a string. Besides this the wood of the Tlounpounpan is run through with a flick which ferves as a handle, by which it isheld. They rowl it between their hands like a Chocolate-flick, only that the Chocolate-flick is held inverted, and the Tlounpounpan strait: and by this motion which I have described, the Leaden Balls which hang down from each fide of the Tlounpounpan, do strike on each fide upon the two Skins.

The Tapon.

The Tapon resembles a Barrel; they carry it before them, hung to the Neck

by a Rope; and they beat it on the two Skins with each fift.

They have another Instrument composed of ....., which they call Parcong. The . . . . are all placed fuccessively every one on a short slick, and planted perpendicular on a demi-circumference of Wood, like to the felleys of a little Wheel of a Coach. He that plays on this Instrument is seated at the center crofs-legg'd; and he strikes the .... with two sticks, one of which he holds in his right hand, and the other in his lest. To me it feems that this Infrument had only a fifth redoubled in extent, but certainly there was not any half notes, nor any thing to frop the found of one...., when another

The Confort The March which they founded at the entrance of the Kings Ambaffadors, which follows was a confused noise with all these Instruments together: The like is sounded in the King in his attending on the King of Siam; and this noise, as fantastical and odd as it is, has nothing unpleasant, especially on the River.

They fometimes accompany the Voice with two short sticks, which they call accompanying Crabs, and which they firike one against the other 3 and be that fings thus, is fitthe Voice. led Thing cap. They hire him at Weeddings with feveral of those instruments
I have mentioned. The people do also accompany the Voice in the Evening into the Courts of the Houses, with a kind of Drum called Tong. They hold it with the Left hand, and strike it continually with the Right hand. This an earthen Bottle without a bottom, and which instead thereof is covered with a Skin tyed to the Neck with Ropes.

The Siamefes do extreamly love our Trumpets, theirs are finall and harsh, Trumpets they call them Tre; and befides this they have true Drums, which they call Clong, and Drums. But the their Drums be leffer than ours, they carry them not hanging upon their Shoulder: They fet them upon one of the Skins, and they beat them on the other, themselves, sixing cross-leg'd before their Drums. They do also make use of this fort of Drum to accompany the Voice, but they seldom sing with these Drums but to dance.

thele Drums but to dance.

On the day of the first Audience of the King's Ambassadors, there were in They have
to the innermost Court of the Palace an hundred Men lying prostrate, some false ones to
the innermost Court of the Palace an hundred Men lying prostrate, some false ones to
the innermost Court of the Palace an hundred Men lying prostrate some make a show. holding for thow those ugly little Trumpets which they founded not, and which I suspect to be of wood, and the others having before them every one a little Druin without beating it.

By all that I have faid, it appears that in some cases the Mathematics are as The Exercises much neglected at Gam, as the other Sciences. They have Exercises of the of the Body. Body in no more Esteem than those of the Mind. They know not what the Art of Riding the Great Horse is: Arms they have none, except the King gives them some, and they cannot purchase any, till he has given them some. They exercise them only by the Order of this Prince. They never fire the Musquet standing, no not in War: To discharge it, they place one Knee on the ground, and frequently proceed to fit on their Heel, stretching forward the other Leg, which they have not bent. They hardly know to march, or keep themselves on their Feet with a good grace. They never firetch out their Hams well, because they are accustomed to keep them bended. The French taught them how to stand to their Arms, and till the arrival of the King's Ships at Siam, their Sentinels themselves sat upon the ground. So far are they from running Races, purely for Recreation sake, that they never walk abroad. The heat of the Climate causes a great Consumption in them. Wrestling, and Fifty-custs, are the Jugler's Trade. The running of Balons is therefore their sole Exercise. The Oar and Pagaye are in this Country the Trade of all the People from four or five years old. They can Row three days and three nights almost without resting, altho' they cannot undergo any other Work.

#### C H A P. XIII.

# Of the Arts exercised by the Siameses.

They have no Companies of Trades, and the Arts flourish not amongst They are bad them, not only by reason of their natural fluggishness, but much more by Artificers, and reason of the Government under which they live. There being no security why, for the wealth of particular persons, but to conceal it well every one there constructed from the Company of the Arms o tinues in fo great a simplicity, that most of the Arts are not necessary to them, and that the Workmen cannot meet with the just value of the Works on which they would befrow a great deal of Expence and Labour. Moreover, as every particular Person does Annually owe fix Months service to the King, and that frequently he is not discharged for fix Months, there is no Person in this Country that dates to diffinguish himself in any Art, for fear of being forced to work grain all his life for the service of this Prince. And because that they are indifferently employ'd in these Works, every one applies himself to know how to do a little of all, to avoid the Bastinados; but none would do too well, because that Servitude is the reward of Ingenuity. They neither know, nor defire to know how to do otherwise, than what they have always done. 'Tis no matter to them to have 500 Workmen, for several Months, upon what a few

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Europeans, well paid, would finish in a few days. If any Stranger gives them any direction, or any Machine, they forget it so soon as their Prince forgets it, Wherefore no European offers his service to an Indian Prince, who is not receiv'd, as I may fay, with open Arms. How little Merit foever he may have, he always has more than the natural *Indians*; and not only for the Mechanic Arts, but for the Sea, and for Commerce, to which they are much more affected. The Inconvenience is, that the Indian Kings do well know the Secret, either of enriching a Stranger only with hopes, or of detaining him amongst them if they have really enrich'd him. Nothing is fo magnificent as the Grants which the great Mogul gives: But is there found one European that has carry'd away much wealth out of his Service?

To return to the Industry of the Siameses, the Arts which they understand they exercife, are these. They are reasonable good Joyners, and because they have no Nails, they very well understand how to fasten pieces together. They pretend to Sculpture, but grofly perform it. The Statues of their Temples are very ill made. They know how to burn Brick, and make excellent Ciments, and are not unskill'd in Masony. Nevertheless their Brick Buildings do not last, for want of Foundations: they do not make any, even in their Fortifications. They have no melted Crystal, nor Glass, and it is one of the things they most esteem. The King of Siam was extreamly pleased with those Fosset-cut Glasfes, which multiply an Object; and he demanded entire Windows with the fame property.

The Windows The Windows of the Chineses are composed with Threds of Glass as big as of the Chinefes. Straws, laid one by another, and glued at the ends to Paper, as we folder the Quarries of Glass into our Window frames. They do frequently put some Daintings on these forts of Glasses, and with these Glasses thus painted, they sometimes make Pannels of Screens, behind which they love to set some lights, because they extreamly admire the Fancy of Illuminations.

How the sia- The Siameles do know to melt Metals, and cast some Works in Molds. mefes do use They do cover their Idols, which are sometimes enormous masses of Brick and Lime, with a very thin Plate either of Gold or Silver, or Copper. I have in my possession a little Sommona-Codom, which is thus cover dover with a Copper Plate gilded, and which is yet full of the Ciment, which ferved as the Model. With fuch a Plate of Gold or Silver they cover certain of their King's Moveables, and the Iron hilt of the Sabres and Daggers, which he prefents to some of his Officers, and sometimes to Strangers. They are not wholly ignorant of the Goldsmith's Trade; but they neither know how to polish, nor to fet precious

They are excellent Gilders, and know very well how to beat the Gold. As write on a often as the King of Siam writes to another King, he does it upon a Leaf of Gold. Leaf of Gold. Leaf of Gold. that Metal as thin as a Leaf of Paper. The Letters are imprinted thereon with a blunt Poinfon or Bodkin, like those with which we write in our Table-

They are bad They make use of Iron only as it is Cast, by reason they are bad Forge-men; Smiths, and no their Horses are not shod, and have commonly Stirrups of Rope, and very paltry Snaffles. They have no better Saddles, the Art of Tanning and preparing Skins, being absolutely unknown at Siam.

They make little Gotton-Cloth, and that very course, with a very nasty Internation of the make international and no stuffs, and only in the Metropolis. They make no stuffs, neither of silk, nor Wooli, nor any Tapeftry-work: Wooli is here very fearce. They understand Embroidery, and their Defigns please.

The painting

In one of their Temples I saw a very pleasant Picture in Frese, the Colours of which were lively. There was no Ordonance, and it made us to remember our ancient Tapestries: Twas not certainly the work of a Siamese

The Siameses and Chineses know not how to paint in Oil; and, moreover, they are bad Painters. Their Fancy is to flight and disesteem whatever is after Nature only. To them it feems that an exact Imitation is too easie, wherefore

they overdo every thing. They will therefore have Extravagancies in Painting, as we will have Wonders in Poetry. They represent Trees, Flowers, Birds, and other Animals, which never were. They fonetimes give unto Men impofible Proportions, and the Secret is, to give to all these things a Facility, which may make them to appear Natural. This is what concerns the

### CHAP. XIV.

# Of the Traffic among st the Siameles.

THE most general Professions at Siam are Fishing for the common People, Fishing and Merchandize for all those that have wherewish as College and all, not excepting their King himfelf. But the Foreign Trade being referved all are the two most entire to the King, the Home Trade is so inconsiderable, that it is impos- which do alfible to raife any competent Fortune thereby. That finplicity of Manners, most employ which makes the Siamples to let go most of the Arts, makes them also to slight all the Siamples to let go most of the Arts, makes them also to slight all the Siamples to let go most of the Arts, makes them also to slight all the Siamples to let go most of the Arts, makes them also to slight all the Siamples to let go most of the Arts, makes them also to slight all the Siamples to let go most of the Arts, makes them also to slight all the Siamples to let go most of the Arts, makes them also to slight all the Siamples to let go most of the Arts, makes them also to slight all the Siamples to let go most of the Arts, makes them also to slight all the Siamples to let go most of the Arts, makes them also to slight all the Siamples to let go most of the Arts, makes them also to slight all the Siamples to let go most of the Arts, makes them also to slight all the Siamples to let go most of the Arts, makes them also to slight all the Siamples to let go most of the Arts, makes them also to slight all the Siamples to let go most of the Arts, makes them also to slight all the Siamples to let go most of the Arts, makes them also to slight all the Siamples to let go most of the Arts, makes the slight all the Siamples to let go most of the Arts, makes the slight all the Siamples to let go most of the Arts, makes the slight all the Siamples to let go most of the Arts, makes the slight all the Siamples the slight all the most of the Commodities which are necessary to the Europeans; yet see how meses. the Siameses carry on their Commerce.

In their Loans, a third person, whosoever he be, writes down the Promise; What their and this fufficeth them in Justice, because it is determined against the word of private With the Debor who denies, upon the double Testimony of him that productings are. ces the Promise, and of him that writ. It is necessary only that it appear by the viewing of the Writing, that it is not the Creditor that writ the

Promife.

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Moreover, they fign no Writings, neither do they apply any Seal to private What their Writings. Tis only the Magistrates that have a Seal that is properly a Seal Signature is which the King gives them as an Instrument of their Offices. Particular Perfons, instead of a Signature, do put a fingle Cross; and tho' this kind of Signature be practifed by all, yet every one knows the Cross which is under his own hand; and it is very rare, they fay, that any one is of a Reputation fo bad as to disown it in Justice. In a word, I shall transiently declare, that we must not fearch out any Mystery in that they fign with a Cross: 'Tis amongst them only a kind of Flourish which they have preferr'd before any other, probably because it is more plain.

I have faid, that they endow the Virgins at their marrying; and that the Por-They have no tion is paid to the Husband in presence of the Parents, but without any Wri-public Writing. I have faid also, that they make no Will, and that before their death ting nor Nother dispose of their Estate with their own hand, and to whom they please, and that after this manner Cuftom disposes of their Inheritance. They Trade little with Immoveables, no person amongst them thinking it safe to purchase Land of another; the Prince gives, or sells thereof, to whoever would have it. But the real Property remaining always in him, is the reason that mone in this Country does care to purchase much Land, nor to meliorate it, for fear of exciting a desire of it in one more powerful than himself. And thus needing no Writings of long continuance, they have not thought fit to have any

As to the small Trades, they are almost all of so little Consequence, and Fi- The small delity is there fo great, that in the Bazars or Markets the Seller counts not the Trades. Money which he receives, nor the Buyer the Commodity, which he purchases by Tale. They were fcandaliz'd to fee the French buy the least things with more Caution.

The Hour of the Market is from Five in the Evening to Eight or Nine. They use no They use no Ell, by reason they buy Muslins, and other Linnens, all in whole Ell. Pieces. They are very poor and milerable in this Country, when they buy

They have the Fathom, use in several Roads.

Cloth by Ken, a term which fignifies the Elbow and Cubit both, and for these they measure with their Arm, and not with any fort of Ell.

Nevertheless they have their Fathom, which equals the French Toile within an Inch. They use it in Buildings, in surveying of Land, and perhaps in other things; and especially in measuring the Roads, or Channels, through which the King generally passes. Thus from Siam to Longo, every Mile is marked with a Post, on which they have writ the number of the Mile. The same thing is obmeasuring the ferv'd in the Country of the great Mogal, where Bernier reports, that they mark the Koffes, or Half-miles, with Tourrettes, or little Pyramids, and every one knows that the Romans denoted their Miles with Stones.

The Coco ferves the Siameles as Measure for Grains and Liquors.

The Coco serves as a Measure for Grain and Liquors in this manner. As all the Coco's are naturally unequal, they measure the Capacity thereof by those little Shells called Coris, which ferve for small Money at Siam, and which are not fensibly greater one than the other. There is therefore such a Coco which contains a thousand Coris, as some have informed me, such an one which contains five hundred, and fuch another more or less. To measure Corn they have a kind of Bushel, called Sat in the Stamese, which is made only with interlaced Bambou; and to measure Liquors, they have a Pitcher called Canan in Siamese, Choup in Portuguese; and it is according to these forts of Measures, that they make their Markets. But for want of Policy, and a Standard, according to which the Measures should legally be regulated, the Buyer accepts them only after having measur'd them with his Coco, the Capacity of which he knows by the Coris; and he uses either Water, or Rice, according as he would measure either the Canan or the Sat with his Coco. In a word, the quarter of the Canan is called Leeng, and forty Sats do make the Sefte, and forty Sefte's the Cobi It is impossible to declare the refemblance which Measures so little exact have with ours. I have faid moreover, that a Pound of Rice a day sufficeth a Man, and that it is worth no more than a Farthing. Mr. Gervaise fays, that the Seste of Rice is reckon'd to weigh an hundred Catis, that is to fay, two hundred twenty and five of our Pounds.

Money ferves Weights.

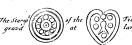
They are not more exact as to their Weights, in general they call them Ding; and the pieces of their Money are more nice and true, and almost the only ones which they use, altho' their Money be frequently false or light. Some inform'd me, as a thing very remarkable, that the Siameles fold course Silver by weight, because they had seen in the Market that Commodity in one of the Scales, and the filver Money which served as a Weight in the other. The same Names do therefore fignifie the Weights and Money both.
Their filver Coins are all of the same Figure, and struck with the same Stamps,

only some are smaller than others. They are of the Figure of a little Cylinder or Roll very short, and bowed quite at the middle, so that both ends of the Cylinder touch'd one another. Their Stamps (for they have two on each piece, ftruck one at the fide of the other in the middle of the Cylinder, and not at the ends ) do represent nothing that we knew, and they have not explain'd them to me. The proportion of their Money to ours is, that their Tical, which weighs no more than half a Crown, is yet worth three shillings and three half-pence. I give the Figure and Size thereof, and at the end of this Work you will find their Measures for the Lengths, as well as their Coins and their Weights. They have no Gold, nor Copper-Money. Gold is a Merchandize amongh them, and is twelve times the value of Silver, the purity being supposed equal in both the Metals.

The Chinele Money.

Neither Gold nor Silver are Monies at China: They cut these Metals into ill shaped pieces, with which they pay for other Commodities; and for this purpose it is necessary, that they always have a pair of Gold Scales, and a Touchstone in their hand. Their pair of Gold Scales is a little Roman Balance; but amongst them there is such cheap living, that for ordinary Provisions their own Money, which is only Copper, fufficeth them. They thred it in a certain number on a Cord, for it is perforated in the middle, and they count by ftrings, and not by pieces.

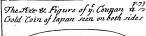




Core a shell serveing for Mony seen severall mays in its natural size.

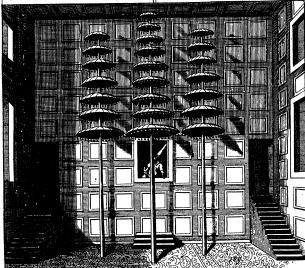








These stroaks are not shadows but are made in the Mony to Sustific the weight thereof.



A Prospect of the Hall of Audience in the Pallace of Siam.

The Japaneles have a flat G ld Coin fomewhat longer than broad, and round. The Congret of the an oval. I give exactly the fize and figure thereof. It is flatck at feveral the Gold Monards with hatchings. Its weight is four Drams and a half, and twelve grains, and is at leaft Twenty three Carrats, as far as we can judge thereof without melting it. It is called Congan, and its value is vulgarly effected Ten Crowns

a piece.

The base Coin at Siam is no other than those little Shells I have already men. Shells, the tioned, and of which I have likewise given the size and figure. The European base Money of which are at Siam do call them Coris, and the Siameles Bia. They fish them up abundantly at the Maldiver Illands, and sometimes at the Phillipine Isles, but in abundantly at the Maldiver Illands, and sometimes at the Phillipine Isles, but in very little quantity, as some have informed mc. Nevertheles Navarrette in his Difference of China, pag. 62. (speaks thus concerning the Coris, which he calls Seguejes.

This imported, faith he, from the coast of India and Manille: They are immunerable at the Ille of Luban, which is one of the Phillipines. And a little after he subjours, the Seguejes are brought from the Isles of Baldivia, which are the Maldivia.

This not easile to say how far the use of districts, which are the Madatune.

This not easile to say how far the use of this Money extends it self. It is current throughout buding, and almost over all the confis of Mirick; and some have the use of this informed me that it is received in some places of Hungary: but I can bardly believe treaded, it, by reason I see it not worth the trouble to carry it thicher. It breaks much in the use; and as there is less of it, it is more worth in respect to the Silver Money; as likewise it lowers its price when there arrives any considerable cargo ney; as likewise it lowers its price when there arrives any considerable cargo by any Ship: for it is a kind of Merchandise. The ordinary price at Siam is that a Founn, or the eighth part of a Fieal, is worth eight hundred Covis, or that 7 or 800 Covis are hardly worth a Penny: The lowness of Money being a certain sign of a good Market, or rather of the cheapness of Commodities.

## CHAP. XV.

# A Character of the Siamescs in general.

As easiness of living consists in the reasonable price of things necessary for The Stameles ness, than in a Poverty attended with too much labour, or in an over-abundant less, it may be affirmed that the Stameles are good men. Vices are detected amongst them, and they excuse them not as witry conceits, nor as sublimity of mind. A Stamele never so little above the refuse of the people, is so far from making himself drunk, that he accounts it a shame to drink Arak, so when he would be supported the Hurband has the nower of Adultery is

Adultery is rare at Siam, not fo much because the Husband has the power of Adultery is Adultery is rare at Siam, not fo much because the Husband has the power of Adultery for a palpable effence, or to fell her, if he can convict her of Infidelity) as because the Women are not corrupted by Idleness (for it is they that maintain the men by their Labour) nor by the Luxuny of the Table or of Cloaths, nor by Gamenony their Labour) nor by the Luxuny of the Table or of Cloaths, nor by Gamenony their Labour, and the standard work of the

Marriages are chafte, but at leaft any other Love more immoderate, than that of the Wives is, they fay, without example.

Iealoufic is amongfit them only a meer opinion of Glory, which is greater in The Jealoufic those, that are most highly advanced in Dignity. The Wives of the People to the managing all the Trade do enjoy a perfect Liberty. Those of the Nobles are wives very referved, and stir not abroad but feldom, either upon some Family visit, or to go to the Progodes. But when they go out, they go with their face uncovered, even when they go on foot; and sometimes it is hard to diffinguish them from the Women-slaves which accompany them. In a word, they not only find nothing austere in the constraint under which they live, but they place their glory

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Women.

glory therein. They look upon a greater liberty as a shame: and would think themselves slighted and contemned by a Husband that would permit it them: They are jealous for them as much as they are themselves.

There is not a vertuous Woman in Asia, who in time of War chuses not rather that her Husband should kill her, than that he should suffer her to fall under the power of the Enemies. Tacitus in the Twelfth Book of his Annals, gives an example thereof in Zenobia, the wife of Rhadamistus. The Husbands themselves do think it the most shameful thing in the world to them, that their Wives should fall into the Enemies hands; and when this happens, the greatest affront that can be done them, is not to restore them their Wives. But tho the Women of Asia be capable of facrificing their life to their glory, there ceases not to be some amongst them, who take secret pleasures when they can, and who hazard their glory and their life upon this account. 'Tis reported that there have been some examples hereof amongst the King of Siam's Wives: How closely foever they be shut up, they do sometimes find out a way to have Lovers. Some have affur'd me, that the ordinary method by which this Prince punishes them, is first to submit them to a Horse, accustomed I know not how, to the love of Women, and then to put them to death. 'Tis fome years fince he gave one to the Tygers, and because these Animals spared her at the first, he offered her a Pardon: but this Woman was fo unworthy as to refuse it, and with fo many affronts, that the King looking upon her as diffracted, ordered again that the should dye. They irritated the Tygers, and they tore her in pieces in his prefence. It is not fo certain that he puts the Lovers to death, but at the leaft he causes them to be severely chastized. The common opinion at Siam is, that I cwas a fault of this nature, which caused the last disgrace of the late Barcalon, elder Brother to the King of Siam's first Ambassadour to the King. The King his Mafter caused him to be very severely bastinado'd, and forbore to fee him, yet without taking away his Offices. On the contrary, he continued to make use of him during the fix months, that he survived the blows which he had received; and he with his own hand prepared all the Remedies which the Barcalon took in his last fickness, because no person dared to give him any, for fear of being accused of the death of a man, who appeared so dear to his Master. Bernier relates some examples, by which it appears that the Great Mogul does not always punish the Women of his Seraglio that offended in their duty, nor the Men that are their Accomplices, with death. These Princes confider these forts of Crimes, like the others, which may be committed against their Majesty, unless any sentiment of Love renders them more fensible of Jealousie.

The Siamese Lords are not less jealous of their Daughters than of their Wives: of the Stameles and if any one commits a fault, they fell her to a certain man, who has a privitowards their ledge of proftituting them for Money, in confideration of a Tribute which he pays the King: Tis faid that he has fix hundred, all Daughters of Officers in effeem. He likewife purchases Wives, when the Husbands sell them, being convicted of Infidelity.

Difrespect towards Old Men is not less rare at Siam than at China. Of the towards Old two Mandarins which came on board the Kings Ambaffadours Ship, to bring them the first Compliment from the King of Siam; the younger, tho the highest in dignity, yielded the first place and speech to the elder, who was not above three or four years older. Lying towards Superiours is punished by the Superiour himself; and the

The Stameles King of Siam punishes it more severely than any other: and notwithstanding all great Lyars.

this, they lye as much or more at Siam, than in Europe. Great Union The Union of Families there is such, that a Son who would plead against his In their Fami. Parents, would pass for a Monster. Wherefore no person in this Country dreads Marriage, nor a number of Children: Interest divides not Families: Poverty renders not Marriage burdensome.

Our Domesticks observed only three forts of Beggars, Aged, Impotent and Begging is rare Friendless persons. Relations permit not their Kindred to beg Alms: They charitably maintain those that cannot maintain themselves out of their Estate or Labour. Begging is shameful there, not only to the Beggar, but to all his

But Robbing is much more ignominious than Begging, I fay not to the Rob- The Shameles ber himself, but to his Relations. The nearest Friend dare not concern them- are Robbers. felves about a Man accused of Theft; and it is not strange that Thievery should be reputed to infamous, where they may live to cheap: Thus are their Houses much less secure, then our worst Chests. Nevertheless as it is not possible to have true Vertue, but in the eternal prospects of Christianity, the Siameses do feldome as I may fay refuse to steal whatever they meet with. 'Tis properly amongst them that opportunity makes the Thief. They place the Idea of perfeet Justice in not gathering up lost things, that is to say in not laying hold on so easie an occasion of getting. After the same manner the Chineses to exaggerate the good Government of some of their Princes, do say that under their Reign Justice was in so high an esteem among the People, that no person meddled with what he found scattered in the high Road; and this Idea has not been unknown to the Greeks. Anciently in Greece the Staggritte made a Law in these words: What you have not laid down take not up; and it is perhaps from them that Plato learned it, when he inferted it amongst his Laws. But the Stamefer are very remote from to exquifite a probity.

Father d' Espagnac, one of those pious and learned Jesuits which we carried Some exam-Father d' Elpignac, one of those pious and realised Jethans Which we carried the Siam, being one day alone in the Divan of their House, a Siamese came boldly ples of These to Siam, being one day alone in the Divan of their House, a Siamese came boldly committed by to take away an excellent Persian Carpet from off a Table that was before him: committed by and Father d' Espagnac let him do it, because he imagined not that he was a Robber. In the Journey which the King caused the Ambassadors from Siam to make into Flanders, one of the Mandarins which accompanied them, took twenty Scions in a house, where the Ambassadors were invited to dine, as they sojourned in one of the principal Cities of Picardy. The next day this Mandarin conceiving that these Scions were Money; gave one to a Footman to drink; and

his Theft was hereby discovered, but no Notice taken thereof. Behold likewise an ingenious prank, which proves that the opportunity of stealing has so much power over them, that it sometimes sways them, even when it is perilous. One of the Officers of the King of Siam's Magazines having stolen some Silver, this Prince ordered him to be put to death, by forcing him to fwallow three or four Ounces of melted Silver, and it happened, that he who had order to take those three or four Ounces of Silver out of that Wretch's throat, could not forbear filching part of it. The King therefore caused him to die of the same punishment, and a third exposed himself to the same hazard by committing the like Offence: I mean by flealing part of the Silver, which he took out of the last dead Man's throat. So that the King of Siam, pardoning him his Life, faid, there is enough punisht, I should destroy all my Subjects, if I should not resolve to pardon them at last.

It must not be doubted after this, of what is reported of the Siameses who Robbers in the It must not be doubted after this, or what is reported or the Stameter with whother in the live in the Woods, to withdraw themfelves from the Government, that they woods of Streequently rob the Paffengers, yet without killing any. The Woods of China am and China which do vehave been continually pettered with fuch Robbers: and there are some who after yearely kill, ter having enticed a great many Companions with them, have formed whole Articles and the state of the stat mies, and at last rendered themselves Masters of that great Kingdom.

mies, and at the tremered themselves whatters of that great kingdom.

On the other hand, Fidelity is exceeding great at Sim, in all forts of Traffick, The fidelity of On the other hand, Fidelity is exceeding great at Sim, in all forts of Traffick, the Simmeler in as I have elfewhere remarked: but Ufury is there practifed without bounds. Commerce, Their Laws have not provided againft it, though their Morality prohibits it, their bound-Avarice is their effential Vice; and what is more wonderful herein, is that they less Utury, and heap not up riches to use them, but to bury them.

As they traffick not almost with immoveables, make no Wills, nor publick They are ve-Contracts, and as in a word they have no Notaries, it seems that they cannot ry revengeful, almost have any Suits, and they have indeed few Civil, but a great many Criand how. treds and Revenges; and they find facility therein with the Judges, who in this Country, as in Europe, do live on their profession. The Stameses have naturally an aversion to blood: but when they hate, even unto death, which is very rare,

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they affaffinate, or they poyfon, and understand not the uncertain Revenge of Duels, yet moit of their quarrels do terminate only in blows, or reciprocal defamilions.

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The Ancients have remark'd that it is the Humidity of the Elements, which ties of the Sia defends the Indians against that action of the Sun, which burns the Complexion of the Negro's, and makes their Hair to grow like Cotton. The Nourithment of the Stamefes is likewife more aqueous, than that of any other People of the Indies; and unto them may be fafely attributed all the good, and all the bad qualities, which proceed from Phlegm and Spittle; because that Phlegm and Spittle are the necessary effects of their Nourithment. They are courteous, polite, fearful, and carelefs. They contain themselves a long time, but when once their Rage is kindled, they have perhaps less discretion than we have. Their Timidity, their Avarices their Diffimulation, their Silences, their Inclination to lying do increase with them. They are stiff in their Customs, as much out of Idleness, as out of respect to their Ancestors, who have transmitted them to them. They have no curiofity, and do admire nothing. They are proud with those that deal gently with them, and humble to those that treat them with Their Friend.

Their manner of promifing themselves an eternal amity, is by drinking of the thip is perfidi-fame Aqua Vite in the fame Cup, and when they would fwear themselves more folemnly, they tafte the blood one of another; which Lucian gives us for a Cufrom of the ancient Soythians, and which is practifed also by the Chineses, and by other Nations: but the Siameses cease not sometimes to betray after all these In general they have more Moderation than us: their Humors are as calm as

turally more their Heaven, which changes only twice a year and infentibly, when it turns by moderate than little and little from Rain to Fair-weather, and from Fair-weather to Rain. They we are, because they are act only by necessity, and do not like us place merit in Action. It feems not ratically and the state of t onal to them that Labour and Pains should be the Fruit and Reward of Vertue. They have the good Fortune to be born Philosophers, and it may be that if they were not born fuch, they would not become fo more than we. I therefore willingly believe what the Ancients have reported, that Philosophy came from the Indies into Europe, and that we have been more concerned at the infenfibility of the Indians, than the Indians have been at the wonders, which our inquietude has produced in the discovery of so many different Arts, whereof we flatter our selves, perhaps to no purpose, that necessity was the Mother. But enough is spoken of the Siameses in general, let us enter into the particulars of their manners, according to their various conditions.

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# PART

Of the Manners of the Siameses, according to their several Conditions.

#### CHAP. I.

Of the several Conditions among the Siameses.

T Siam all Persons are either Freemen or Slaves. The Master has all Of the Slavepower over the Slave, except that of killing him: And the source power over the Slave, except that of killing him: And the source according may report, that Slaves are feverely beaten there, (which is very prohes) hable in a Country where free persons are so rigidly bastinado'd) yet the Slavery there is so gentile, or, if you will, the Liberty is so abject, that it is become a Proverb, that the Stames's sell it to eat of a Fruit, which they call

Durions. I have already said, that they chuse rather to enjoy it, than to enjoy none at all: 'Tis certain also, that they dread Beggary more than Slavery; and this makes me to think, that Beggary is there as painful as ignominious, and that

this makes the to think, that beggary is there as painth as ignormalists, and that the Stamefer, who express a great deal of Charity for Beafts, even to the relieving them, if they find any fick in the Fields, have very little for the Men.

They employ their Slaves in cultivating their Lands and Gardens, and in some In what the domestic Services; or rather, they permit them to work to gain their livelihood, Slaves are under a Tribute which they receive, from sour to eight Ticals a Year, that is to employed.

fay, from seven Livres ten Sols, to fisteen Livres.

One may be born, or become a Slave. One becomes so either for Debt, as A Siamese may I have faid, or for having been taken Captive in War, or for having been con-bebm, or fifcated by Inflice. When one is made a Slave for Debt, his Liberty returns become a again by making fatisfaction; but the Children born during this Slavery, tho it be but for a time, continue Slaves.

One is born a Slave, when born of a Mother-flave; and in the Slavery, the How he is Children are divided as in the Divorce. The first, third, fifth, and all the rest born a Slave, in the odd number belong to the Mafter of the Mother: the fecond, fourth, and he belongs. all the others in the even rank belong to the Father, if he is free; or to his Mafter, if he is a Slave. Tis true, that it is necessary upon this account, that the Father and Mother should have had Commerce together, with the consent of the Master of the Mother: for otherwise all the Children would belong to the Master of the Mother.

The difference of the King of Siam's Slaves from his Subjects of free condi-The difference I ne difference of the range of diam's shares from the shorts, and main-between the tion, is, that he continually employs his Slaves in perfonal labours, and main-between the tion, is, that he continually employs his Slaves in perfonal labours, and main-between the tion, is, that he continually employs his Slaves in perfonal labours, and main-between the tion, is, that he continually employed his share share the continual tion of the continual tion. Year, but at their own expence.

In a word, the Slaves of particular men owe not any service to that Prince; The Slaves of In a word, the Staves of particular that over the any territory this Reason he lofes a freeman, when this man falls into flavery, eight private many therefor Debt, or to avoid Beggary, yet this Prince opposes it not, neither precipite to the gravie to the

tends any Indemnity upon this account. Properly fpeaking, there is not two forts of Conditions among free persons Of the sta-Nobility is no other thing than the actual possession of Offices, the Families miss Nobility.

which do long maintain themselves therein, do become doubtless more illustrious and more powerful; but they are rare: and fo foon as they have loft their Offices, they have nothing, which diffinguishes them from the common People. There is frequently feen at the Pagaye, the Grandson of a Man who died a great Lord, and sometimes his own Son.

or Talapoins.

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Of the Priests The distinction between the People and the Priests is only an uncertain distinction, seeing that one may continually pass from one of these States to the other. The Priefts are the Talapain, of whom we shall speak in the sequel. Under the Name of People I comprehend whatever is not a Priest, viz. the King, Officers, and People, of whom we now proceed to speak.

#### CHAP. II.

# Of the Siamese People.

The Siamefe people is a Milítia,

THE Siamese People is a Militia, where every particular person is registred: They are all Souldiers, in Siamese Taban, and do all owe six Months fervice annually to their Prince. It belongs to the Prince to arm them, and give them Elephants or Horfes, if he would have them ferve either on Elephants, or on Horfeback: but it belongs to them to cloath, and to maintain themselves. And as the Prince never employs all his Subjects in his Armies, and that oftentimes he fends no Army into the Field, though he be at War with fome of his Neighbours, yet for fix months in the year he employs in fuch a work, or in fuch a fervice as pleafes him, those Subjects which he employs not in the War.

Wherefore, to the end that no person may escape the personal service of the divided into Prince, there is kept an exact account of the People. Tis divided into men on the right hand, and men on the left, to the end that every one may know on

on the left. What fide he ought to range himself in his Functions. And belides this it is divided into Bands, each of which has its Chief, which And by Bands. they call Nai: so that this word Nai is become a term of Civility, which the Siamefes do reciprocally give one to the other, as the Chinefes do interchange the Title of Master or Governor.

What diffebetween a Band and a Company.

I have faid that the Siamese People is divided by Bands, rather than by Comrence there is panies; because that the number of Soldiers of the same Band is not fix'd, and because that all those of the same Band, are not of the same Company in the Army: and I have faid, that Nai fignifies Chief, though fome translate it by the word Captain; because that the Nai does not always lead his Band to the War, no more than to the fix months Service: His care is to furnish as many men out of his Band, as are required, either for the War, or for the fix months Service.

The Children The Children are of the fame Band with their Parents; and if the Parents are of the same are of different Bands, the Children in the odd rank are of the Mother's Band. Band with the Children in the even rank of the Father's provided nevertheless that the Mother's Nai hath been acquainted with the Marriage, and that he hath given his confent thereunto: otherwise the Children would be all of the Mother's

and yet are re-

The Talapoins Thus, though the Talapoins and Women do enjoy all exemption from Service, as not being esteemed Soldiers, yet they cease not to be set down in the Rolls of the People: the Talapoins, because they may return when they please to a secular condition, and that then they fall again under the power of their natural Nai: gifterd, and the Women because their Children are of their Band, or all, or the greatest part, as I have faid.

'Tis one of the Nai's Priviledges to be able to lend to his Soldier fooner than ges of the Nai, any other, and to be able to fatisfie his Soldiers Creditor; thereby to make his Soldier his Slave, when he is infolvable. As the King gives a Balon to each

Officer with a certain number of Pagareurs, and as these are the Officers, which are also the Nai, every Officer has his Pagayeurs in his Band. They brand them on the outfide of the Wrist with an hot Iron and an Anchor over it; and these fort of Domesticks are called Bao. But none of the Bao's or Pagayeurs owes to his Nai only this fervice, and that only fix months in the year, wherefore they are released from fix months to fix months, or by month, as it pleases the Nai: the Nai has also some Offices in the Law as we shall see.

Now the more numerous his Band is, the more powerful he is esteemed: What as Stam The Offices and Employments of Siam being important only in this. The are the digni-Dignities of Pa-3a, Oc-7a, Oc-Pra, Oc-Louang, Oc-Counne, Oc-Mening, and Oc-Pan, in-are feven degrees of thele Nai. "Tis true that the Title of Oc-Pan is now dif-reft.

"The are the digni-ties of Pa-3a, Oc-7a, Oc-Pra, Oc-Pra, Oc-Counne, Oc-Menis, Inow dif-reft."

"The are the digni-less of Pa-3a, Oc-Pan, Oc-Pa a Thousand Men. Mening signifies Ten Thousand, and it is thought that an Oc-Mening is the Chief of Ten Thousand Men: not that in truth it was so, but that in the Indies they magnifie the Titles, No person could give me the true fignification of these words, Paga, Oc-ya, Oc-Pra, Oc-Louang, Oc-Counne, nor how many men are affigned to each of the five Dignities; but it is probable that as the words Pan and Mening are Terms of Number, the rest are so too.

The word Oc feems to fignifie Chief; for they have another Title without Of the wordoc. Function, viz. Oc Menang, which feems to fignifie Chief of a City, in that Menang fignifies a Ciry, and in that it is necessary to have been made Oc-Menang before he be effectually made Governor, whom they call Tchaou-Menang, Lord of a

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But this word Oc is not Siamefe; Chief in Siamefe is called Hona, and this This word is word Hona properly fignifies the Head. From hence comes Hona Sip Chief of Ten not Siamefe, and World Hona properly fignifies the Head. From hence comes Hona Sip Chief of Ten not Siamefe, and World Hona Properly fignifies the Head. From hence the North Republic Properly figure 1 and Telephon Properly figure 1. which is, as I have elsewhere said, the Title of him that mounts the Elephant it. at the Crupper. After the same manner they call him, that bears the Royal Standard in the Balon where the King is, Honapan, or Chief of a Thonfand. To return to the word Oc, a Superior never useth it to an Inferior. Thus the King of Siam speaking to Oc-Pra Pipitcharatcha, will not, for example, say Oc-Pra Pipitcharatcha, but only Pra-Pipitcharatcha; A man relating his own Titles himself. will also modefuly suppress this term  $o_c$ ; and in fine, the inferiour People in speaking of the highest Officers will omit the word  $o_c$ , and will say for example, ya-yumrat, for Ocya yumrat; Mening Vai, for Oc Mening Vai.

The Portuguese have translated the word Pa-ya, by that of Prince; not in my Of the word

opinion, from their right understanding it, but because they have seen this Ti. Pa-ya. tle given to Princes, and that the King of Siam gives it himself; but he sometimes gives it also to the Officers of his Court, which are not Princes, and he gives it not always to the Princes of the Blood. The Lords of the Great Moguls Court are called, according to Bernier, Hazary, Dour hazary, Grege, hechr, and Deb hazary, that is to say, One Thousand, Two Thousand, Five, Eight, and Ten Thousand, as if one should say, Lords over so many Thousands of Horse: though in reality they could neither maintain, nor command fo great a number. The great Moguls eldest Son, he says, is called Twelve Thousand, as if he had the effective command of Twelve Thousand Horse. 'Tis no strange thing therefore that the King of Siam's Subjects being esteemed Soldiers, as those of the Great Mogul are efteemed Horlemen, have equally affumed in both Courts the term of number, to express the highest Dignities, and to name the Princes themfelves; yet I cannot affirm this is so at Siam, by reason that I know only that the words Pang and Mening are Siamese and numeral Terms:but as to the other names of Dignity, which I have mentioned, some have informed me that they are Balie, and that they understood them not. I know that in the Country of Laos the Dignities of Para and Menang, and the honourable Epithets of Pra are in use; it may be also that the other Terms of Dignity are common to both Nations. as well as the Laws.

In reference to the fix Dignities (for that of Oc-pan is obsolete, as I have said) Six orders of there are now at Siam fix Orders of Cities, which have been anciently determi-Cities of Siam. ned according to the Rolls of the Inhabitants. So that such a City, which was then found very populous had a Paya for Governor, and such which was less

popu-

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populous had an Oc.ya, and the rest had also other Dignities in proportion to the Inhabitants which they contained. But it is not necessary to believe that these Cities have ever been to populous as the Titles of their Governors import; by reason, as I have often alledged, that these People are very proud in Titles Only the greatest Titles were given to the Governors of the biggest Cities, and the least Titles to the Governors of the Cities less inhabited. Thus the City of Me-Tac, of which I have spoken at the beginning, had a Governor called Pa-ya-Tac, and the word Me which fignifies Mother, and which is joyned to Tac, feems to intimate that the City of Me-Tac was very great. The City of Porfelone had also a Pa-ya; Tenasserim, Ligor, Corazema and other, have still some Oc-ya. Lesser Cities, as Pipeli and Bancock, have the Oc-pra, others have the Oc-Louang, or the Oc-Coumes, and the leaft of all have the Oc-Mening. The Portuguese have translated these Titles according to their fancy by those of King, Vice-Roy, Duke, Marquis, Earl, &c. They have given the Title of Kingdom to Metac, Tenaffarim, Porseloue, Ligor, and Pipeli; either by reason of their hereditary Governours, or for having been like Pipeli the residence of the Kings of Siam: and to the Kings of Siam they have given the Title of Emperor, because the Spaniards have ever thought the Title of Emperor ought to be given to Kings, that have other Kings for Feudataries: So that upon this fingle reason some Kings of Callille have born the Title of Emperor, giving to their Children the Title of Kings of the feveral Kingdoms which were united to their Crown.

The dignities To return to the Titles of the Siamefes, they are given not only to the Goof the Stameles vernors, but to all the Officers of the Kingdom; because that they are all Na: are not annext and the fame Title is not always joyned to the fame Office. The Barcaton, for to the fingle example, has fometimes had that of Paya, as fome have informed me, and Governments example, has no long that of Ocya. But if a Man has two Offices, he may have two Offices of the paya in the p different Titles in respect to his two Offices: and it is not rare that one Man has two Offices, one in the City and the other in the Province, or rather one in Title and the other by Commission. Thus Oc. 30 Proceeds who is Governor of the City of Siam in Title, is now Oc-71 Barcalon by Commission: the King of Siam finding it his interest, because that upon this account he gives not to one

Officer a double Sallery.

The Equivo- But this Multiplication of Offices on the same Head causes a great deal of cations which Obscurity and Equivocation in the ancient Relations of Siam; because that when this causes in aman has two Offices, he has two Titles, and two Names, and when the Relation imports that such an Ocya for example, is concerned in such a thing, one is inclined to believe that the Relation has still this Ocya by the title of the function which it attributes to him, and frequently it has named him by the title of another Office. Thus if a Relation of the Kingdom of France made by a Siamese should intimate, that the Duke of Mayne is General of the Swiffes, the Siameles might groundlefly perswade themselves, that every General of the Suilles bears the Title of Duke of Mayne. And this is what I had to fay touching the People of Siam.

## CHAP. III.

# Of the Officers of the Kingdom of Siam in general.

The proper figuration of tent of the East Mandarins, and it is probable that they have formed this the word Man- word from that of Mandar, which in their Language lignifies to command. Navarette, whom I have already cited, is of this opinion; and we may confirm it, because that the Arabian word Emir, which is used at the Court of the Great Mogul, and in feveral other Mahometan Courts of the Indies, to fignifie the Officers, is derived from the Arabian Verb amara, which fignifies to command. The word Mandarin extends also to the Children of the Principal Officers, which are confidered as Children of Quality, called Mon in Siamese. But I shall make use of the word

Mandarin, only to fignifie the Officers.

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The King of Siam therefore makes no confiderable Mandarin, but he gives The King of The King of Jam Intertole Black of Collina and in other States of Stan gives thin a new Name; a Cuffour effablished also at China, and in other States of Stan gives the East. This Name is always an Elogium; contentines it is purposely invented, considerable considerable like that which he gave to the Bishop of Metelpolis, and like those which he Mandarine. gives to the Forreigners that are at his Court; but oftentimes these Names are ancient, and known for having been formerly given to others; and those are the most honourable, which have been heretofore born by persons very highly advanced in Dignity, or by the Princes of the Royal Blood. And although fuch Names be not always accompanied with Offices and Authority, they ceafe not to be a great Mark of Favour. It likewise happens that the same Name is given to several persons of different Dignities; so that at the same time the one, for example, will call himself, Oc Pra Pipitcharatcha, and the other Oc-Counne Pipitcharatcha. These Names, of which the first words are only spoken, and which do every one make a Period, are taken almost all entire out of the Bais Tongue, and are not always well understood: But this, and the Stile of the Laws, which participate very much of the Baly, and the Books of Religion. which are Baly, are the cause why the Kings of Siam ought not to ignore this Tongue. Forasmuch as, I have elsewhere said, it lends all its Ornaments to the Siamese, and that oftentimes they do elegantly intermix them, either in speak-

The Law of the State is, that all Offices should be hereditary; and the same All Offices Law is in the Kingdom of Laos, and was anciently at China. But the felling of are hereditary. Offices is not there permitted: and moreover the leaft fault of the Patent, or the capricious Humor of the Prince, or the Dotage of the Inheritor may take away the Offices from the Families, and when this happens it is always without Recompence. Very few Families do long maintain themselves therein, especially in the Offices of the Court, which are more than the rest under the Ma-

fter's power.

Moreover, no Officer at Siam has any Sallary. The Prince lodges them, The Profits of which is no great matter; and gives them some moveables, as Boxes of Glod the Offices. or Silver for Betel; some Arms, and a Balon; some Beasts, as Elephants, Horses, and Buffalo's; some Services, Slaves, and in fine some Arable Lands. All which return to the King with the Office, and which do principally make the King to be the Heir of his Officers. But the principal gain of the Offices consists in Extorsions, because that in this there is no Justice for the weak. All the Officers do hold a correspondence in pillaging; and the Corruption is greatest in those from whence the Remedy ought to come. The Trade of Prefents is publick; the least Officers do give unto the greatest, under a Title of Respect; and a Judge is not there punished for having received Presents, if otherwise he be not convicted of Injustice, which is not very easie to do.

The Form of the Oath of Fidelity confifts in swallowing the water, over which The Oath of the Talapoins do pronounce fome Imprecations against him, who is to drink it, Fidelity, in case he fails in the Fidelity which he owes to his King. This Prince dispenses not with this Oath to any persons that engage themselves in his Service, of what

Religion or Nation foever.

The Publick Law of Siam is written in three Volumes. The first is called The Publick Pra Tam Ra, and contains the Names, Functions, and Prerogatives of all the Law of Stam Offices. The second is intituled, Pra Tam Non, and is a Collection of the written. Constitutions of the Ancient Kings; and the third is the Prz Rayja Cammanot.

wherein are the Constitutions of the now Regent King's Father.

Nothing would have been more necessary than a faithful extract of these The difficulty three Volumes, rightly to make known the Constitution of the Kingdom of of procuring Siam: but so far was I from being able to get a Translation, that I could not the Books procure a Copy thereof in Siamele. It would have been necessary upon this ac thereof. count to continue longer at Siam, and with less business. This is therefore what I could learn certainly about this matter, without the affishance of those Books,

and in a Country where every one is afraid to speak. The greatest token of Servitude of the Siameses is, that they dare not to open their mouth about any thing that relates to their Country.

#### CHAP. IV.

### Concerning the Offices of Judicatory.

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The Division THE Kingdom of Siam is divided into the upper and lower. The upper of the Kingdom of the North (feeing that the River defeated). contains seven Provinces, which are named by their Chief Cities, Porselone, Sanquelone, Lacontai, Campeng-pet, Coconrepina, Pechebonne, and Pitchai. At Porselone do immediately arise ten Jurisdictions, at Sanquelouc eight, at Lacomai seven, at Campeng pet ten, at Coconrepina five, at Pechebonne two, and at Pitchai seven. And besides this there are in the upper Siam one and twenty other Jurisdictions, to which no other Jurisdiction resorts; but which do resort to the Court, and are as fo many little Provinces.

In the lower Siam, that is to fay in the South part of the Kingdom, they reckon the Provinces of for, Patana, Ligor, Tenasserim, Chantebonne, Petelong or Bordelong, and Tehiai. On For do immediately depend feven Jurisdictions, on Patana eight, on Ligar twenty, on Tenafferim twelve, on Chantehonne feven, on Petelong eight, and on Tehiai two. And besides this, there are likewise in the lower Siam thirteen small Jurisdictions, which are as so many particular Provinces, which refort only to the Court, and to which no other Jurisdiction reforts. The City of Siam has its Province apart, in the heart of the State, be-

tween the upper and lower Siam.

The Governor is the Judge.

The whole Tribunal of Judicature confifts properly only in a fingle Officer, feeing that it is the Chief or Prefident only that has the deliberate voice, and that all the other Officers have only a confultative voice, according to the Cu-ftom received also at *China*, and in the other Neighbouring States. But the most important prerogative of the President is to be the Governour of his whole Jurisdiction, and to command even the Garrisons, if there be any; unless the Prince hath otherwise disposed thereof by an express order. So that as in other places these Offices are hereditary, it is no difficult matter for some of these Governors, and especially the most powerful, and for the most remote from Court, to withdraw themselves wholly or in part from the Royal Autho-

For belongs no more to the Kingdom of of Siam.

Thus the Governor of For renders Obedience no longer. and the Portugueses give him the Title of King. And it may be he never intends to obey, unless the Kingdom of Siam (hould extend it felf, as Relations declare, to the whole Peninsula extra Gangem. For is the most Southern City thereof, seated on a River, which has its Mouth at the Cape of Sincapura, and which forms a very

Nor Patana.

The People of Patana live, like those of Achem in the Isle of Sumatra, under the Domination of a Woman, whom they always elect in the same Family, and always old, to the end that she may have no occasion to marry, and in the name of whom the most trusty persons do rule. The Portuguese have likewise given her the Title of Queen, and for Tribute she sends to the King of Siam every three Years two small Trees, the one of Gold, the other of Silver, and both loaded with Flowers and Fruits; but the owes not any affiftance to this Prince in his Wars. Whether these Gold and Silver Trees are a real Homage, or only a Respect to maintain the liberty of Commerce, as the King of Siam sends Presents every three Years to the King of China, in consideration of Trade only, is what I cannot alledge; but as the King of China honours himself with these forts of Presents, and takes them for a kind of Homage, it may well be, that the King of Siam does not less value himself on the Presents he receives from the Queen of Patana, altho' the be not perhaps his Vaffal.

The Siameles do call an Hereditary Governor Tchaou-Menang; Tchaou figni- The Goverfies Lord, and Menang a City or Province, and fometimes a Kingdom. The Kings nor is Lord, of Siam have ruin'd and destroy'd the most potent Tchaou-Menang, as much as they could, and have substituted in their place some Triennial Governors by Commission. These Commission-Governors are called Pouran, and Pour signi-

Belides the Prefents which the Tchaou-Menang may receive, as I have declard, The Profits his other legal Rights are,

First, Equally to share with the King the Rents that the arable Lands do Menang. yield, which they call Naa, that is to fay Fields; and according to the ancient Law, these Rents are a Mayon, or quarter part of a Tical for forty Fathom, or

two hundred Foot square.

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2dly, The Tchaou-Menang has the profit of all Confiscations, of all the Penalties to the Exchequer, and ten per Cent. of all the Fines to the Party. The Confifcations are fixed by Law according to the Cases, and are not always the whole Estate, not even in case of sentence of Death; but sometimes also they extend to the Body, not only of the Person condemn'd, but of his Children

3dly, The King of Siam gives the Tchaou-Menang some men to execute his Orders; they accompany him everywhere, and they row in his Balon. The Siameses do call them Kenlai, or Painted Arms; by reason that they pink and mangle their Arms, and lay Gunpowder on the wounds, which paints their Arms with a faded Blue. The Portuguese do call them Painted Arms, and Officers; and these Painted Arms, are still used in the Country of Laos.

4thly, In the Maritime Governments, the Tchaou- Menang fometimes takes Cuftoms of the Merchant Ships, but it is generally inconfiderable. At Tenasserim it is eight per Cent, in the kind, according to the Relation of the Foreign Missions.

Some have affur'd me, that the Siamefes have the Humanity not to appropriate The Humaniany thing to themselves of what the Tempest casts on their Coasts by Ship-ty of the sixwrack; yet Ferdinand Mendez Pinto relates, that Lewis de Monteroyo, a Portuguese, wards those having suffer'd Shipwrack on the Coast of Siam near Patana, the Chabandar, or that have suf-Custom-house Officer, which he names Chatir, confiscated not only the Ship fered Shipand its Cargo, but Monteroyo himself, and some Children; alledging, that by the wrack. ancient Custom of the Kingdom, whatever the Sea cast upon the Coasts, was the profit of his Office. Tis true, that this Author adds, with great Praifes on the King of Siam who then reigned, that this Prince, at the Request of the Portugueses which were at his Court, set Monteroyo at liberty, and restor'd him all the Prize, and the Children; but he subjoins also that it was out of Charity, and on the day that this Prince went through the City mounted on a white Elephant, to distribute Alms to the People.

5thly, The Tchaou-Menang arrogating to themselves all the Rights of Sove. A continuance raignty over the Frentiers, do levy, when they can, extraordinary Taxes on the of the Rights of

6thly, The Tchaou-Menang do exercise Commerce every where, but under the Menang, name of their Secretary, or some other of their Domestics. And this last Circumstance demonstrates that they have some shame, and that the Law perhaps prohibits them; but that in this they are not more scrupulous than their

King. 7111y, In some places where there are Fish-ponds, the Tehan-Menang take the best of the Fish when the Pond is emptied; but he takes for his own use

only, and not to fell, and the rest he leaves to the People.

gibly, Venifon and Salt are free throughout the Kingdom, and the King him-felf has laid no Prohibition nor Impost thereon. Salt is there of little value. I have heard that they have Rock-falt, and they make it of Sea-water; some have told me with the Sun, others with Fire; and, perhaps, both is true. At the places where the Shoars are too high to receive the Sea, and in those, where Wood is not near at hand, the Salt may fail, or cost too much to make, as in

the Island of Fonfalam, the Inhabitants whereof do rather chuse to import their Salt from Tenafferim.

the Pou-ran.

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The Pourran, or Governor by Commission, has the same Honours, and the or Profits of same Authority as the Tohasu-Menang, but not the same Profits. The King of Siam names the Pou-ran upon two Accounts, either when he would have no Tchaou-Menang, or when the Tchaou-Menang is obliged to ablent himself from his Government; for the Tehaou-Menang has no ordinary Lieutenant who can supply his place in his absence, as in France the Chancellor has none. In the first Case the Pon-ran has only the Profits which the King affigns him at naming him; in the second Case he takes the Moyety of the Profits from the Tchaon-

of the Officers more. which compose a Tribu-

Menang, and leaves him the other Moyety.

Now follows the ordinary Officers of a Tribunal of Judicature, not that and Functions there are so many in every one, but that in any one perhaps there is not

Ocya Tchaou Menang. The Tchaou Menang is not always Ocya, he has fometimes another Title, and the other Officers of his Tribunal have always fome Titles proportion'd to his.

Oc. Pra Belut. His Name fignifies Second, but he prefides not in the absence of

the Tchaou Menang, because he has no determinative Voice.

Oc. Pra Jockebatest, a kind of Attorney-General, and his Office is to be a strict Spy upon the Governor. His Office is not Hereditary, the King nominates some person of Trust; but Experience evinces, that there is no Fidelity in these Men, and that all the Officers hold a private Correspondence to pillage

Oc Pra Peun commands the Garrison, if there is any, but under the Orders of the Tchaon-Menang; and he has no Authority over his Soldiers, but when they

are in the Field.

Oc. Pra Maha-Tai, is, as it were, the Chief of the People. His Name seems to signifie the Great Siamese; for Maha signifies Great, and Tai signifies Siamese. 'Tis he that levies the Soldiers, or rather that demands them of the Nai: who fends Provisions to the Army, who watches that the Rolls of the People be well made; and who, in general, executes all the Governor's Orders which concern the People.

Oc-Pra Sassedi makes and keeps the Rolls of the People. 'Tis an Office very subject to Corruption, by reason that every particular person endeavors to get himself omitted out of the Rolls for money. The Nai do likewise seek to favor those of their Band, who make Presents to them, and to oppress those with labour who have nothing to give them. The Maha Tai, and the Sassedi, would prevent this disorder, if they were not the first corrupted. The Sussedi begins to enter down Children upon the Rolls, when they are three or four Years

Oc-Louang Meuang is, as it were, the Mayor of the City; for, as I have already faid, Menang fignifies City; but as for what concerns the Title of Oc-Louang, it does not fignifie Mayer, and is no more applied to that Office than another Title. This Mayor takes care of the Polity and Watch. They kept a Watch every Night round the Ambaffador's Lodgings, as round the King of Siam's Palace, and this was a very great Token of Honour.

Oc. Louang Vang is the Master of the Governor's Palace, for Vang fignifies Palace. He causes it to be repair'd, he commands the Governor's Guards, and even their Captain; and, in a word, he orders in the Governor's Palace, whatever has

relation to the Governor's charge.

Oc-Louang-Peng keeps the Book of the Law and the Custom, according to which they judge; and when Judgment is passed, he reads the Article thereof, which serves for the Judgment of the Process: and, in a word, it is he that pronounces the Sentence.

Oc-Louang Clang has the Charge of the King's Magazine, Clang fignifies Magazine. He receives certain of the King's Revenues, and fells to the People the King's Commodities, that is to fay those, the Trade of which the King appropriates to himself, as in Europe the Princes do generally appropriate the Trade of Sale to thernselves.

Oc-Louang Conca has the Inspection over Foreigners; he protects them, or accuses them to the Governor.

Moreover there are some Officers in every superior Tribunal to fend to the inferior Justices, when the Tchaou-Menang or Pouran are dead, whilst that the King fills the place: and the number of these Officers are as great as that of the inferior Juffices.

Oc-Louang or Oc-Counne Coong is the Provost: he is always armed with a Sa-

bre, and has Painted Arms like Archers.

Oc Counne Paya Bat is the Keeper of the Goal or Prisons: and the word Paya; which the Portugueses have translated by that of Prince, seems exceedingly vilified in the Title of this Office. Nai-Gong is the true Goaler, Conc fignifies a Prison, and nothing is more cruel than the Prisons of Siam. They are Cages of Bambou exposed to all the injuries of the Air.

Oc-Counne Navin commands those that have the care of the Elephants, which the King has in the Province: for there are some in several places, because it would be difficult to lodge and feed a very great number of Elephants toge-

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Oc-Comme Nai-rang is the Purveyor of the Elephants. In a word, there is an Officer in every Tribunal to read the  $T_{ava}$  or Orders from the King to the Governor, and an House in an eminent place for to keep them: As within the inclofure of the King of Siam's Palace there is a fingle House, on an eminent place, to keep all the Letters which the King of Siam receives from other Kings.

These are the Officers which are called from within. Besides these, there are An important These are called from without, for the Service of the Province. All distinction in the other which are called from without, for the Service of the Province. have an entire dependance upon the Governor; and altho those without have within and the like Titles, yet they are very inferior to the Officers within. Thus an Oc. Officers within Menang within the Palace, is superior to an 0c-ya without; and in a word it is out. not necessary to believe that all those who bear great Titles, must always be great Lords: That infamous fellow who buys Women and Maids to profitute them bears the Title of Oc-ya; he is called Oc-ya Meen, and is a very contemptible person. There are none but debauch'd persons that have any Correspondence with him. Every one of the Officers within has his Lieutenant, in Sia. mese Balat, and his Register in Stamese Semien, and in his House, which the King gives him, he has generally an Hall to give his Audiences.

# CHAP. V.

# Of the Judiciary Stile and Form of Pleading.

They have only one Stile for all matters in Law, and they have not thought They have not fit to divide them into Civil and Criminal: either because there is always a double Stile: some punishment due to him that is cast, even in a matter purely Civil, or because that suits in matters purely Civil are very rare there.

'Tis a general Rule amongst them, that all Process should be in writing, They plead and that they plead not without giving Caution.

Only in wriBut as the whole People of the Juriddiction is divided by Bands, and that ting and by
giving Ball.

But as the whole People or the Juritaletton is atviced by Danais, and that giving Bail, their principal Mai are the Officers of the Tribunal, whom I shall call by the The Function general name of Councellors; in case of process the Plaintiff goes first to the of the Nation Councellor who is his Nai, or to his Country Nai, who goes to the Councellor Law Suits. Nai. He presents him his Petition, and the Councellor presents it to the Governor. The Duty of the Governour is nicely to examin it; and to admit or reject it, according as to him it feems just or unjust; and in this last case to Chastise the Party, who presented it, to the end that no person might begin any process rashly, and this is likewise the Stile or form of China, but it is little observed at

Part III.

The Governor then admits the Petition, and refers it to one of the Councelcess is prepa- lors; and ordinarily he returns it to him that presented it, if he is the common Nai of both parties: but then he puts his Seal thereunto, and he counts the lines and the cancelling thereof, to the end that no alteration may be made. The Councellor gives it to his Deputy and to his Clerk, who make their report to him at his House in his Hall of Audience: And this report, and all those which I shall treat of in the sequel, are only a Lecture. After this the Councellor's Clerk presented by his Master, reports or reads this very Petition, in the Governour's Hall, at an Assembly of all the Councellors; but in the absence of the Governor, who vouchsafes not to appear at whatever serves only to prepare the Cause. The Parties are there called in under pretence of endeavouring to reconcile them: and they are summon'd three times, more for fashions sake, than with a fincere intention of procuring the accommodation. This Reconciliation not fucceeding, the Court orders, if there are witneffes, that they should be heard before the same Clerk, unless he be declared suspected. And in such another Sellion, that is to fay, where the Governor is not prefent, the Clerk reads the Process and the depositions of the Witnesses, and they proceed to the Opinions, which are only confultative, and which are all writ down, beginning with the Opinion of the last Officer.

The Form of The Process being thus prepar'd, and the Council standing in presence of the the Judgments. Governor, his Clerk reads unto him the Process and the Opinions; and the Governor, after having refumed them all, interrogates those whose Opinions feem to him not just, to know of them upon what reasons they grounded them. After this Examination he pronounces in general terms, that such of the Parties shall be condemned according to the Law.

The Law or Cuflom is read.

Then it belongs to Oc-Loung-Peng to read with a loud voice the Article of the Law, which respects the suit: but in that Country, as in this, they dispute the fense of the Laws. They do there seek out some accommodations under the title of Equity 3 and under pretence that all the circumfances of the fact are never in the Law, they never follow the Law. The Governour alone decides these disputes, and the Sentence is pronounced upon the parties, and set down in Writing. But if it be contrary to all appearance of Justice, it belongs to the Jockebat, or the Kings Attorney General, to advertise the Court thereof, but not to oppose it. Every fuit ought to end in three days, and some there are which last three

Suits are a long time de vears.

Attorney.

pending.
The parties do speak before the Clerk, who writes down what they tell Advocate nor him; and they speak either by themselves, or by another: but it is necessary that this other, who herein performs the office of an Attorney or Advocate, should be at least Cousin German to him for whom he speaks; otherwise he would be punished, and not heard. The Clerk receives likewise all the Titles and Deeds, but in presence of the

Before whom

they produce. Court, who counts all the lines thereof. When ordinary proofs do not suffice, they have recourse to Torture in Ac-Proofs subsidicusations, which are very grievous upon this account; and they apply it rigoary to the roufly, and in feveral ways: or rather they use the proofs of Water and of Fire. Torture. or of some others as superstitious, but not of Duelling.

The Proof of

In the Proof of Fire they erect a Pile of Faggots in a Ditch, in such a manner that the surface of the Pile be level with the edge of the Ditch. This Pile is five fathomslong, and one broad. Both the parties do walk with their naked Feet from one end to the other, and he that has not the fole of his Feet hurt gains his Suit. But as they are accustomed to go with naked Feet, and that they have the sole of the Foot hard like Horn, they say that it is very common that the Fire spares them, provided they rest the Foot upon the Coals: for the way to burn themselves is to go quick and lightly. Two men do generally walk by the side of him that passes over the Fire, and they lean with force upon his Shoulders, to hinder him from getting too quick over this proof and it is faid that this weight is fo far from expofing him more to be burnt, that on the contrary he stifles the Action of the Fire under his Feet.

Sometimes the proof of the Fire is performed with Oil, or other boiling Another fort matter, into which the parties do thrust their hand. A Frenchman, from whom of Proof by a Siamese had stole some Tin, was perswaded, for want of proof, to put his hand into the melted Tin; and he drew it out almost consumed. The Siamese being more cunning extricated himself, I know not how, without burning; and was fent away absolved; and yet fix Months after, in another Suit, wherein he was engaged, he was convicted of the Robbery, wherewith the Frenchman had accufed him. But a Thousand such like events perswade not the Siameses to change their form.

The Proof of the Water is performed after this manner. The two parties do The Proof of plunge themselves into the Water at the same time, each holding by a Pole, the Water. along which they descend; and he that remains longest under Water is thought to have a good Caufe. Every one therefore practifes from their Youth, in this Country, to familiarize himself with Fire, and to continue a long time under

They have another fort of Proof, which is performed by certain Pills prepa. A Proof by red by the Talapoins, and accompanied with Imprecations: Both the parties do Vomits. fwallow them, and the token of the right Cause is to be able to keep them in

the Stomach without caffing them up, for they are vomitive.

All these Proofs are not only before the Judges, but before the People, and The various fuccess of if the two parties do escape equally well, or equally ill with one, they have re-these Proofs: course to another Tryal. The King of Siam uses them also in his Judgments, but besides this he sometimes delivers up the parties to Tygers, and he whom the Tygers fipare for a certain time is adjudged innocent. But if the Tygers devour them both, they are both efteemed guilty. If on the contrary the Tygers do meddle neither with the one nor the other, they have recourse to some other they have recourse to some other. Proof, or rather they wait till the Tygers determine to devour one or both of the Parties. The Constancy with which it is reported that the Siameses do undergo this kind of death, is incredible in persons, who express so little Courage in War.

There are fometimes feveral Provinces which appeal one to the other; which The Degrees multiplies the degrees of Appeal to three or four. An Appeal is permitted in of Appeal. all cases, but the charges thereof are always greater, as it is necessary to travel

further to plead, and in a Tribunal superior, But when there ought to pass the sentence of Death, the decision thereof is Judgments of But when there ought to pais the lentence of Death, the dection thereof is Judgmens of referved to the King alone. No other Judge than himself can order a capital Death referpunishment, if this Prince does not expressly grant him the power thereof; and wed to the punishment, if this Prince does not expressly grant him the power thereof; and wed to the there is hardly any precedent, that he grants it otherwise than to some extra Prince, or there is analyzed that the provinces, either dinary Compone a particular case, or to execute Justice at the places of all the crimes work missioners. thy of death. All the Criminals are kept in the Prisons till the arrival of the Commissioners: and they have sometimes, as at China, the power of deposing and punishing the ordinary Officers with death, if they deserve it. But if the King of Siam grants other Commissions for his Service, or for the Service of the State, it is rare that he exempts the Commissioner from taking the assistance of the Governor of the places where he fends him.

The unishment of Robbery is the Condemnation to the double, and The Punishfometimes to the triple; by equal portions to the Judge and Party: But it is ment of Robmost fingular in this, that the Siameses extend the Punishment of Robbery to bery extended every unjust Possessor in a Real Estate: So that whoever it evicted out of an to Estates. Inheritance by Law, not only restores the Inheritance to the Party, but likewise pays the value thereof, half to the Party, and half to the Judge. But if by the King's special permission the Judge can put the Robber to death, then he can at his own discretion order either Death, or the pecuniary Mulct, but not Death

and the pecuniary Mulct together. But to show 1.3w dear Justice is in a Country, where Provisions are so cheap,

I will add at the end of this work, a Note that was given me of the charges of Juffice, where you will likewife fee a particular of the form: but the charges are not the same in all the Tribunals, as I have already declared. He for whom

Some-

this Roll is, has four inferior Jurisdictions, and he appeals to another, which appeals to the Court.

#### CHAP. VI.

The Functions of the Governor and Judge in the Mctropolis.

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The King is IN the Metropolis, where there is no other Tchaon-Menong than the King, the Functions of Governor and Judge are divided into two Offices: and the Menang of the other Functions of the leffer Offices, which compose a Tribunal of Tchaon-Menang, are destributed to the principal Officers of the State; but with greater Extent and Authority, and with higher and more pompous Titles.

Tummarat, which they pronounce Tumrat.

The Office of The President of the Tribunal of the City of Siam, to whom all the Appeals of the Kingdom do go, they call Tumrat. He generally bears the Title of Oc-ya, and his Tribunal is in the King's Palace; but he follows not the King, when that Prince removes from his Metropolis; and then he renders Justice in a Tower, which is in the City of Siam, and without the inclosure of the Palace. To him alone belongs the determinative Voice; and from him there also lyes an Appeal to the King, if any one will bear the expence.

In this case the Process is referred and examined by the King's Council; but

The Judiciary In this case the Process section and sense in clustery confultative, as is practifed in the form before in his absence to a Sentence inclusively confultative, as is practifed in the the King.

Council of the Tchaon-Menang. The King is prefent only when it is necessary that he pronounce a definitive Judgment: and according to the general form of the Kingdom, this Prince, before passing the Sentence, resumes all the opinions and debates with his Councellors, those which to him seem unjust; and some have affured me, that the present King acquits himself herein with a great deal of Ingenuity and Judgment.

The Office of The Governor of the City of Siam is called Pra-fedet, and generally also bears the Title of Ocya. His Name, which is Baly, is composed of the word Pra, which is pro- which I have feveral times explained, and of the word Sedet which fignifies, fay nounced Pra-fome, the King is gone; and indeed they speak not otherwise, to say that the King is gone. But this does not sufficiently explain what the Office of Pros feder is: and in feveral things it appears, that they have very much lost the exact understanding of the Bals. Mr. Gervaife calls this Office Peledat; I always heard it called the process of the proc it called Pra-sedet, and by able men, altho they write it Pra-sadet.

The course of the River from its Mouth to the Metropolis, is divided into

on which the several small Governments. The first is Pipeli, the second Prepaiem, the third Bancock, the fourth Talaccan, and the fifth Siam. The Officers of every one of these Governments received the King's Ambassadors at the enterance into their Nings Am-baffadors, eve- Jurisdiction, and they left them not till the Officers of the next Jurisdiction had ry one in his joyned and faluted them and they were the particular Officers of each Govern-Government, ment that made the Head of the Train. Besides this there were some Officers more confiderable, that came to offer the King their Mafter's Balons to the Ambafladors, at the Mouth of the River: and every day there joyned new Officers, that came to bring new Compliments to the Ambaffadors: and who quitted not the Ambaffadors after they had joined them.

The place

The King's Ambasadors arrived thus within two Leagues of Siam, at a place which the French called the Tabanque; and they waited there eight or ten days for the time of their entrance into the Metropolis. Tabanque in Siamele fignifies panagors expected the day the Custom House: and because the Officer's House, which stands at the Mouth of the River, is of Bambon like all the rest, the French gave the name of Tabanque to all the Bambou houses where they lodged, from the name of the Officers House, which they had seen first of all.

The day therefore that the King's Ambassadors made their enterance, Oc-Ja The Governor Prasedet as Governour of the Metrolis came to visit, and compliment them at to setch them. this pretended Tabanque.

### CHAP. VII.

Of the State Officers, and particularly of the Tchacry; Calla hom, and of the General of the Elephants.

Mongst the Court Officers are principally those, to whom are annexed the Of the chief A Functions of our Secretaries of State: but before an enterance be made Officers ingeinto this matter, I must declare that all the chief Officers in any kind of Affairs neral. whatever, have under them as many of those Subaltern Officers which compose the Tribunal of the Tchaou-Menang.

The Tehacry has the distribution of all the Interior polity of the Kingdom: Of the Tehacry. to him revert all the Affairs of the Provinces : All the Governours do immediately render him an Account, and do immediately receive Orders from him : he

is President of the Council of State.

Part III.

The Calla-hom has the appointment of the War: he has the care of the Forti- Of the Callafications, Arms, and Ammunitions: He, iffues out all the Orders, that con. hom. cern the Armies, and he is naturally the General thereof, altho the King may name whom he pleases for General. By Van Vliet's Relation it appears that the Command of the Elephants belonged also to the Calla hom, even without the Army. But now this is a separate Employment, as some have assured me : either for that the present King's Father, after having made use of the Office of the Calla-hom to gain the Throne; refolved to divide the Power thereof, or that

Calla-hom to gain the I hrone; reloved to divide the Fower thereot, or that naturally they are two diffinct Offices, which may be given to a fingle Perfon.

However it be, 'tis Oc-Pra Pipitcharatcha corruptly called Petratcha, who comormands all the Elephants, and all the Horfes: and it is one of the greatest Emral of the Elephants of the Kingdom, because that the Elephants are esteemed the King phants. of Stan's Principal Forces. Some there are who report that this Prince maintains Ten Thouland, but is impossible to be known, by reason that Vanity always inclines these Beanla to Lying: and they are more vain in the matter of ways inclines these People to Lying: and they are more vain in the matter of Elephants, than in any thing else. The Metropolis of the Kingdom of Laos is called Lan-Tchang, and its name in the Language of the Country, which is almost the same as the Siameses, fignifies Ten Millions of Elephants. The King of Siam keeps therefore a very great number: and it is faid that three men at least are required for the service of every Elephant: and these men, with all the Offiers that command them, are under the orders of Oc. Pra Pipitcharatcha: who though he has only the Title of Oc. Pra, is yet a very great Lord. The people love him because he appears moderate; and think him invulnerable, because he expresfed a great deal of Courage in some Fight against the Pegnins: his Courage has likewise procur'd him the Favour of the King his Master. His Family has continued a long time in the highest Offices: is frequently allied to the Crown; and it is publickly reported that he or his Son Oc-Louang Souracac may pretend to it, Figh aratha was the King's Nurfe, and the Mother of the first Ambassador whom we saw here: and when the King commanded the great Barcalon, the Brother of this Ambassador, to be bassinado'd the last time, twas Oc Louang Souracae the Son of Oc-Pra Pipitcharatcha that bastinado'd him by the King's order, and in his presence; the Prince's Nurse, the Mother of the Barcalon, lying prostrate at his Feet, to obtain pardon for her Son90

### CHAP. VIII.

Concerning the Art of War amongst the Siameses, and of their Forces by Sea and Land.

The Stamefer The Art of War is exceedingly ignor'd at Stam: the Stamefer are little innot proper for Countries, is not more proper for Countries, than the flow imagination of countries, is not more proper for Countries, than the flow imagination of Countries extreamly cold. The fight of a naked Sword is sufficient to put an hundred Stamples to flight; there needs only the affured Tone of an European, that wears a Sword at his fide, or a Cane in his hand, to make them forget the most express Orders of their Superiors.

I fay moreover, that every one born in the Indies is without Courage; altemptible the 1 lay moreover, that every one born in the *Indies* is without Courage; almen in the *In-* though he be born of *European Parents*. And the *Portuguefes* born in the *Indies* dies are as to have been a real proof thereof. A fociety of Dutch Merchants found in them their Courage only the Name and the Language, and not the Bravery of the Portuguese: and

only the Same and the Languages, and the Butch, they would not be found more Valorous. The best constituted men are those of the Temperate Zones: and amongst these the difference of their common aliments, and of the places which they inhabit, more or lefs hot, dry or moift, exposed to the Winds or to the Seas, Plains or Mountains. Woods or Champains, and much more the several Governments do cause very great differences. For who doubts, for example, Governments do cause very great differences. For who doubts, for example, that the Antient Greeks, brought up in liberty, where incomparably more Valorous then the present Greeks, depressed by so long a Servitude? All these reasons do concur to effeminate the Courage of the Siameses, I mean the heat of the Climate, the slegmatick Aliments, and the Despotick Government.

The Opinion of the Metempse busin inspiring them with an horror of blood, abhor blood deprives them likewise of the Spirit of War. They busin themselves only in making Slaves. If the Peguins, for example, do on one side invade the lands of Siam, the Siameses will at another place enter on the Lands of Pegu, and both Darties will carry away whole Villages into Captivity.

Parties will carry away whole Villages into Captivity.

But if the Armies meet, they will not shoot directly one against the other, guile she discussed but higher: and yet as they endeavour to make these random Shots to fall back guile the de-figo of killing upon the Enemies, to the end that they may be overtaken therewith, if they their Eaemies, do not retreat, one of the two Parties do's not long defer from taking flight, upon perceiving it never so little to rain Darts or Bullets. But if the defign be to stop the Troops that come upon them, they will shoot lower than it is necesfary; to the end that if the Enemies approach, the fault may be their own in coming within the reach of being wounded or flain. Kill not is the order, which the King of Siam gives his Troops, when he fends them into the Field: which cannot fignifie that they should not kill absolutely, but that they shoot

not directly upon the Enemy.

Some have upon this account informed me a thing, which in my opinion, How the King will appear most incredible. Tis of a provincial named Coprian, who is still at Surat in the French Company's Service, if he has not quitted it, or if he is not lately dead: the name of his Family I know not. Before his entrance into the Companies fervice, he had ferved fome time in the King of Siam's Army in quality of Canoneer; and because he was prohibited from shooting strait, he doubted not that the Siamese General would betray the King his Master. This Prince sending afterwards some Troops against the Tchaon-Menang, or if you will, against the King of Singer, on the western Coast of the Gulph of Siam, Cyprian wearied with seeing the Armies in view, which attempted no persons life, determin'd one night to go alone to the Camp of the Rebels, and to fetch the King of Singer into his Tent. He took him indeed, and brought him to the Siamele General, and so terminated a War of above twenty years. The King of Stam intended to recompence this fervice of Cyprian with a quantity of Sapanwood; but by some intrigue of Court he got nothing, and retired to Surat.

Now though the Siameses appear to us so little proper for War, yet they The Siameses Now though the stamper appear to us to fittle proper for vial, yet they have little to cease not to make it frequently and advantageously, by reason that their Neigh-fear from their

bours are neither more potent nor more valiant than them.

The King of Siam has no other Troops maintained than his foreign Guard, The King of which I will speak in the sequel.

The King of Which I will speak in the sequel. of which I will tpeak in the request. The true that the Chevillet which we found at the Troops howed the Exercite of Arms to four hundred Siameles, which we found at the Troops Bancock; and that after he had quitted this Kingdom, an Englishman, who had han list for been a Sergeant in the Garrison of Madraspatan, on the Coast of Coronandel, reign Guard. showed this same exercise, which he had learnt under the Chevalier de Fourbin, to about eight hundred other Siamsfes, to show the King of Siam that the Chevalier de Fourbin was not necessary to him. But all these Soldiers have no other pay, than the Exemption from the fix Months Service for fome of their Family. And as they cannot eafily maintain themselves from their own Houses, by reafon they receive no money, they remain at their own Habitations; the four hundred about Bancock, and the other eight hundred at Lowvo, or thereabouts. Only for the security of Bancock some Detachments went thither by turns to keep a continual Guard, and the rest being thereabouts might render themselves in case of an Alarm. But according to the common practice of the Kingdom of Siam, the Garrifons which it may have, are composed of persons, who serve in this by fix Months, as they should serve in another thing; and who are relieved by others when they have ferved their full time. The Kingdom of Siam being very strong by its impenetaable Woods, and by The Country

the great number of Channels, wherewith it is interfperfed, and in fine by the of stain syery annual Innundation of fix Months, the Stamels would not hitherto have places ftrong without well fortified for fear of losing them, and not being able to retake them; and this is the reason they gave me thereof. The Castles they have would hardly fustain the first shock of our Soldiers; and shough they be small and ugly, because

they would have them such, yet is it necessary to employ the skill of the Euro-

Tis some years fince the King of Siam designing to make a wooden Fort on The Siamilas. The Frontier of Pegu, had no abler a person to whom he could entrust the care know not the Frontier of Pegu, had no abler a person to whom he could entrust the care know not the thereof, than to one named Brother Reme Charbonneau, who after having been a how wooden peans to delineate them. Servant of the Mission of St. Lazarus at Paris, had passed to the Service of the Fort. Foreign Millions, and was gone to Siam. Brother Rene, who by his Industry knew how to let blood, and give a Remedy to a fick Person (for it is by such like charitable Employments, and by some presents, that the Missionaries are permitted and loved in this Country) defended himself as much as he could from making this Fort, protesting that he was not capable: but in short he could not prevent rendering obedience, when it was fignified to him that the King of Siam absolutely required it. He was afterwards three or four years Governor of Jossalam by Commission, and with great approbation: and because he desired to return to the City of Siam to his Wife's Relations, which are Portugueses, Mr. Billi, the Master of Mr. de Chanmont's Palace, succeeded him in the Employment of Jonfulam.

The Siameses have not much Artillery. A Portuguese of Macao, who died of their Artilin their service, cast them some pieces of Cannon, but as for them, I question lery. whether they know how to make any moderately good : though fome have in-

formed me that they have hammered fome out of cold Iron.

As they have no Horfes (for what is two thousand Horfe at most, which 'tis in what their reported that the King of Siam keeps? I their Armies confift only in Elephants, Armies confift and in Infantry, naked and iil armed, after the mode of the Country. Their order of Battel and Encampment is thus.

They range themselves in three lines, each of which is composed of three What is their great square Battalions; and the King, or the General whom he names in his order of battle great Iquare Battations; and the King, or the General Wholi the halfs in this and of their absence, stands in the middle Battalion, which he composes of the best Troops, Encampments. for the fecurity of his Person. Every particular Captain of a Battalion keeps himself also in the midst of the Battalion which he commands: and if the nine

Battalions are too big, they are each divided into nine less, with the same symmetry as the whole body of the Army.

Elephants of

The Army being thus ranged, every one of the nine Battalions has fix-teen male Elephants in therear. They call them Elephants of War: and each of these Elephants carries his particular standard, and is accompanied with two female Elephants; but as well females as males are mounted each with three armed Men; and befides this the Army has fome Elephants with Baggage. The Stamefer report that the female Elephants are only for the dignity of the males; but as I have already declared in the other part, it would be very difficult al-

ways to govern the males without the Company of the females.

The Artillery, at the places where the River grows shallow, is carried on Waggons drawn by Buffalos, or Oxen, for it has no carriage. It begins the Fight, and if it ends it nor, then they place themselves within reach to make use of the final shot, and Arrows, after the manner as I have explained, but they never fall on with vigour enough, nor defend themselves with constancy enough, to come to a close Fight.

The Stameles They break themselves and fly into Woods, but ordinarily they rally with case to break themselves and fly into Woods, but ordinarily they rally with and to rally. Conspiracy of the Macassars, it is absolutely necessary to stand firm, they can promite themselves to retain the Soldiers, only by placing some Officers behind, to kill those that shall fly. I have elsewhere related how these Macassar made use of Opium to endow themselves with Courage: 'tis a custom practifed principally by the Rayipouts, and the Melays, but not by the Siameses: the Siameses: the Siameses:

Elephants not They very much selv young to Elephants.

proper for War.

They very much rely upon the Elephants in Combats, though this Animal for want of Bitt or Bridle, cannot be fecurely governed, and he frequently re-turns upon his own Mafters when he is wounded. Moreover he fo exceedingly dreads the fire, that he is never almost accustomed thereunto. Yet they exercise them to carry, and to see fired from their back little pieces about three foot long, and about a pound of Ball; and Bernier reports that this very practice is observed in the Mogul's Country.

The Siamefes incapable of Sieges.

ness by Sea.

As for Sieges they are wholly incapable thereof, for men that dare not fet upon the Enemies when in view, will not vigorously attack a place never so little Fortified, but only by Treachery, in which they are very cunning, or by Fa-

Their weak The Befieged cannot have provision.

They are yet more feeble by Sea than by Land. Not without much ado the King of Siam hath five or fix very small Ships, which he principally makes use of for Merchandize; and fometimes he arms them as Privateers against those of his Neighbours, with whom he is at War. But the Officers and Seamen, on whom he confides, are Foreigners; and till these latter times he had chosen Englip and Portuguele: but within these few years he hath employed some French. The King of Siam's Intention is, that his Corsairs should kill no person, no more than his Land Forces, but that they use all the Tricks imaginable to take fome Prizes. In his War at Sea, he proposes to himself only some Reprizals from some of his Neighbours, from whom he believes himself to have received fome injury in Trade. And the contrivances succeed whilst his Enemies are not in any diffruft. Besides this he has sifty or fixty Galleys, whose Anchors, I have said are of Wood. They are only moderate Boats for a Bridge, which do every one carry fifty or fixty men to Row and to Fight. These men do fight by turns, as in every thing else: There is only one to each Oar; and he is obliged to Row standing, because the Oar is so short, for lightness sake, that it would not touch the water, if not held almost perpendicular. These Gallies only coast it along the Gulph of Siam.

CHAP. IX.

### Of the Barcalon, and of the Revenues.

THe Pra-Clang, or by a corruption of the Portuguefer, the Barcalon, is the Offi- Of the Barca-cer which has the appointment of the Commerce, as well within as with-lon. out the Kingdom. He is the Superintendent of the King of Siam's Magazines, or if you will, his chief Factor. His name is composed of the Balie word Pra, which I have to often difcourfed of, and of the word Chang, which fighties Magazine. He is the Minister of the foreign affairs, because they almost all relate to Commerce, and its to him that the fugitive Nations at Siam address themselves in their affairs, because its only the liberty of Trade that formerly invited them thither. In a word, it is the Barcalon that receives the Revenues of the Cities

The King of Siam's Revenues are of two forts, Revenues of the Cities, and The King of Revenues of the Country. The Country Revenues are received by Oc 34 Pol- Siam's Revenues, according to forme, or Forethep, according to Mr. Gervafe.

They are all reduced to the Heads following.

They are all reduced to the Teath tomoving.

1. On Forty Fathom Square of cultivated Lands, a Major or quarter of a Ti- His Duties on call by year: but this Rent is divided with the Tehons Meaning where there is one; cultivated and by year: but this Rent is divided with the Tehons Meaning the Profile the Lands. and it is never well paid to the King on the Frontiers. Besides this, the Law of the Kingdom is, that whoever ploughs not his ground pays nothing, though it be by his own negligence that he reaps nothing. But the present King of Siam, to force his Subjects to work, has exacted this duty from those that have posfessed Lands for a certain time, although they omit to cultivate them. Yet this is executed only in the places where his Authority is absolute. He loved nothing so much, as to see Strangers come to settle in his States, there to manure those great uncultivated Spaces, which without comparison do make the most considerable part thereof: in this case he would be liberal of untilled grounds, and of Beafts to cultivate them, though they had been cleared and prepared for

a. On Boats or Balons, the Natives of the Country pay a Tical for every Fa- On Boats thom in length. Under this Reign they have added that every Balon or Boat above fix Cubits broad should pay fix *Ticala*, and that Foreigners should be obliged to this duty, as well as the Natives of the Country. This duty is levied like a kind of Custom at certain places of the River, and amongst others at

The arking of Canoni acceptant places of the River, and amongst others at Technism, four Leagues above Siam, where all the Streams unite.

3. Cuftoms on whatever is imported or exported by Sea. Befides which, Cuftomes, the body of the Ship pays fomething in proportion to its Capacities, like the

4. On Arak or Rice Brandy, or rather on every Furnace where it is made, On Arak which they call Taon-laon, the People of the Country do pay a Tical per Annum. This Duty has been doubled under this Reign, and is exacted on the Natives of the Country, and on Strangers alike. 'Tis likewife added, that every Seller of Arak by re-tail, should pay a Tical a year, and every Seller by whole sale, a Tical per Annum for every great Pot, the size of which I find no otherwise described in the Note which was given me.

5. On the Fruit called Durion, for every Tree already bearing, or not bearing On Durions. Fruit, two Mayons or half a Tical per annum.

6. On every Tree of Betel, a Tical per annum.

7. On every Arekier they formerly paid three Nuts of Arek in kind: under On the Arek. this Reign, they pay fix.

8. Revenues entirely new, or established under this Reign, are in the first New Imposts. place, a certain Duty on a School of Recreation permitted at Siam. The Triplace, a certain Pony on a School of the fame Nature, but I know not bute which the Ocya Meen pays, is almost of the fame Nature, but I know not whether it is not ancienter than the former. In the fecond place, on every Coco-B b

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Tree, half a Tical per Annum; and in the third place on Orange-Trees. Mango-Trees, Mangoultaniers and Pimentiers, for each, a Treal per dimum. There is no duty on Pepper, by reason that the King would have his Subjects addict themfelves more to plant it.

9. This Prince has in feveral places of his States fome Gardens and Lands, ferved to the which he causes to be cultivated, as his particular demesn, as well by his Slaves, as by the fix Months Service. He causes the Fruits to be gathered and kept on the places, for the maintenance of his House, and for the nourishment of his

Slaves, his Elephants, his Horfes, and other Cattles, and thereft he fells.

10. A Catual Revenue is the Prefents which this Prince receives, as well as all the Officers of his Kingdom, the Legacies which the Officers bequeath him at their death, or which he takes from their Succeffion; and in fine, the extraor-dinary Duties, which he takes from his Subjects on feveral occasions; as for the Maintenance of Foreign Ambaffadors, to which the Governors, into whose Jurifdiction the Ambassadors do pass, or sojourn, are obliged to contribute; and for the building of Forts, and other publick works, an expence which he levies on the People, amongst whom these works are made.

Six Months

11. The Revenues of Justice do donfist in Confiscations and Fines.

12. Six Months service of every one of his Subjects per Annum: a Service which he or his Officers frequently extend much further, who alone discharges it from every thing, and from which there remains to him a good Increase. For in certain places this Service is converted into a payment made in Rice, or in Sapan-wood, or Lignum-aloes, or Salrpette, or in Elephants, or in Beafts Skins, or in Ivory, or in other Commodities: and in fine, this Service is sometimes esteemed and paid in ready Money; and it is for the ready Money that the Rich are exempted. Anciently this Service was esteemed at a Tical a Month, because that one Tical is sufficient to maintain one Man: and this computation ferves likewise as an assessment on the days Labour of the Workmen, which a particular Person employs. They amount to two Ticals a Month at least, by reason that it is reckond that a Workman must in 6 Months gain his Maintenance for the whole year; feeing that he can get nothing the other fix Months that he ferves the Prince. The Prince now extorts two Ticals a Month for the exemption from the fix Months Service.

Commerce, a

13. His other Revenues do arise from the Commerce, which he exercises Revenue with his Subjects and Foreigners. He has carried it to fuch a degree, that traordinary or with his subjects and Foreigners. He has carried it to fuch a degree, that traordinary or Merchandize is now no more the Trade of particular persons at Siam. He is called. not contented with felling by Whole-fale, he has fome Shops in the Bazars or Markets, to fell by Re-tail

Cotton-cloath.

The principal thing that he fells to his Subjects is Cotton-cloath: he fends them into his Magazines of the Provinces. Heretofore his Predeceffors and he fent them thither only every Ten Years, and a moderate quantity, which being fold, particular persons had liberty to make Commerce thereof now he continually furnishes them,he has in his Magazines more than he can possibly sell;and it sometimes happens that to vend more, that he has forced his Subjects to cloath their Children before the accustomed Age. Before the Hollanders came into the Kingdom of Last, and into others adjacent, the King of Siam did there make the whole Commerce of Linnen with a confiderable profit.

All the Calin is his, and he fells it as well to Strangers as to his own Subjects,

The Calin or

excepting that which is dug out of the Mines of Fonfalam on the Gulph of Rengal: for this being a remote Frontier, he leaves the Inhabitants in their ancient Rights, fo that they enjoy the Mines which they dig, paying a finall profit to this Prince.

All the Ivory comes to the King, his Subjects are obliged to vend him all that petre, Lead, they fell, and Strangers can buy only at his Magazine. The Trade of Saltpetre, Lead and Sapan, belongs also to the King: they can buy and sell them only at his Magazine, whether one be a Siamele or Stranger.

Arek, a great deal of which is exported out of the Kingdom, can be fold to

Foreigners only by the King: and for this end he buys fome of his Subjects, besides that which he has from his particular Revenues.

Prohibited Goods, as Powder, Sulphur and Arms, can be bought or fold at Prohibited Si.un, only at the King's Magazine.

As to the Skins of Beafts, this Prince is obliged, by a Treaty made with the Skins of Beafts. Hollanders, to fell them all to them; and for this purpose he buys them of his Subjects: but his Subjects do convey away a great many, which the Hollanders buy of them in fecret.

Duy or them in lecter.

The rest of the Commerce at Sim is permitted to all, as that of Rice, Fish, The Commerce free to Stlt, Brown Sugar, Sugar-Candy, Ambergreese, Wax, the Gum with which all persons. Varnish is made, Mother of Pearl, those edable Birds Nests which come from Tonguin and Cochinchina, which Navaratte reports to be made of the Sea-froth in fome Rocks, by a kind of finall Sea-Birds, which refemble Swallows, Gumme Gutte, Incenfe, Oyl, Coco, Cotton, Cinnamon, Nenuphar, which is not exactly like ours, Caffia, Dates, and feveral other things, as well the growth of the Kingdom, as brought from abroad.

Every one may make and fell Salt; filh and hunt, as I have declared, and Salt, Filhing, without paying any thing to the King. It is true, that the necessary Policy is used in Fishing; and Oc-Pra Tainam, who receives the particular Revenues of the River, hinders those ways of Fishing, which destroy too much Fish at

The King of Siam has never been well paid his Revenues in lands remote the King of Siften his Court. Tis faid that the ready Money that he formerly received, and Revenues amounted to Twelve hundred thousand Livres, and that what he now gets a- amount, mounts to Six hundred thouland Crowns, or to Two Millions. Tis a difficult thing to know exactly: all that I can affert is, that in this Country it is reported (as a thing very confiderable, and which feems Hyperbolical) that the prefent King of Siam has augmented his Revenues a Million.

#### CHAP. X.

### Of the Royal Seal, and of the Maha Obarat.

There is no Chancellor at Siam. Every Officer that has the Power of giv-There is no ing the Sentences, or Orders in Writing, which they call Time in general Siam. The has a Seal which the King gives him: and the King himself has his Royal Seal, King gives not which he commits to no person whatever, and of which he makes use for the his seal to any Letters he writes, and for whatever proceeds immediately from him. The Fi-person. gure which is in the Seals, is not hollow, but in Relievo. The Seal is rub'd over with a kind of Red Ink, and is printed on the Paper with the Hand. An inferior Officer takes this Pains; but 7 is the duty of the Officer to whom the Seal belongs, to pluck it with his own Hand from the Print.

After feveral remarks, which I have made, it feems to me, that whatever is of the Matter done in the King of Siam's Name has no Power, if it is not done at the place where this King actually refides. Certain reasons have hindered, why they have not certainly informed me thereof. However, it is certain, that for the reason which I have alledged, or for some other, there is at Siams as it were a Vice-Roy, who represents the King, and performs the Regal Functions in the King's Absence; as when this Prince is at War. This Officer is called Maha Obarat, as it was given me in writing, or Ommarat, according to the Abbot de Choifs, and Mr. Gervaife. And the Abbot de Choifs adds, that the Maha Omarat has a right of fitting down in the King's Presence, a Circumstance which some have informed me to be peculiar to another Officer, of whom I shall speak in the sequel. At present they give him the Title of Pa-ya, and they do thereunto add the word Tchaon, which fignifies Lord; Tchaon Pasja Maha Omrat: Sometimes he has only the Title of Oe-3a, as in Flier's Relation, where he is called Oe-3a Ombrat. He is thereunto qualified as Chief of the Nobility, which fignifies nothing, but the first Officer of the Kingdom.

#### CHAP. XI.

# Of the Palace, and of the King of Siam's Guards.

Officers with T now remains for me to speak of the King, and of his House. This Prince's in and with Palace has its Officers within, and its Officers without; but so different in our. dignity, that an Oc-Mening within commands all the Oc-70 without. They call Officers within, not only those which lodge always in the Palace, but those whose functions are exercised in the Palace: And they call Officers without the Palace, not all the Officers of the Kingdom, which have no Function in the Palace, but those which having no Function in the Palace; yet have not any without which respects not the Service of the Palace. Thus the Spaniards have Servants, which they call de Escalera arriba, and others which they call de Escalera lera abase, that is to lay Servants at the top of the Stairs, or which may go up the Stairs to their Mafter, and to those to whom their Mafter sends them, and

others who wait always at the bottom of the Stairs.

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The Meuing

The King of Siam's Palaces have three Inclosures: and that of the City of Three Inclotures in the Siam's Palaces have three incloures: and that of the City of three in the King of Siam's after the food iditant one from the other, that the space thereof appears like King of Siam's vast Courts. All that the inward Close includes, viz., the King's Apartment, fome Court, and some Garden, is called Vang in Siames. The whole Palace with all its Inclosures is called Prassat, though Viliet in the Title of his Relation translates the word Prassat by that of Throne. The Siames neither enter into the Vang, nor depart thence without prostrating themselves, and they pass not before the Prassat. And if sometimes the stream of the Water carries them. and forces them to pass thereby, they are pelted with showers of Pease, which the King's Servants shoot over them with Trunks M. deChaumont and the King's Ambassadors landed, and left their Umbrella's at the first entrance of the Prassat.

The Oe-yaVang commands in the Vang; and in him reunites all the Functions which respect the Reparations of the Palace, the Order which must be observed in the Palace, and the Expence which is made for the Maintenance of the King, of his Wives and of his Eunuchs, and of all those whom this Prince maintains in the Vang. Twas the Oc-ya Vang, who, after the Example of all the other Governours, which had received the King's Ambassadors at the entrance of their Government, came to receive them at the Gate of the Vang; and who intro-

duced them to the Audience of the King his Master.

The Gates of The Gates of the Palace are always shut; and behind each stands a Porter. the Palace, and who has some Arms, but who instead of bearing them, keeps them in his Lodge of the precau near the Gate. If any one knocks, the Porter advertifes the Officer, who comtions with which perfons mands in the first Inclosure, and without whose permission of purely depth of the standard which performs mands in the first Inclosure, and without whose permission of purely depth of the standard performance of the having depth of the standard performance of the having depth of the standard performance of are admitted. nor goes out: but no person enters armed, nor after having drunk Arak, to affure himself that no drunken man enters therein. Wherefore the Officer views,

and smells the breath of all those that must enter therein.

This Office is double, and those that are in it do serve alternately and by day. The days of Service they continue twenty four whole hours in the Palace, and the other days they may be at home. Their Title is Oc-Mening Tchion, or rather Pra Mening Tchion: for at the Palace before the word Mening there are fome who put the word Pra instead of Oc, though some have told me that it is Oc-Mening, and not Pra-Mening that he must be always called. 'Twas one of these Mening Tehions who brought the first Compliment from the King of Siam to the Ambaffadors, when they were in the Road; and who stayed constantly with them after they were landed, as Mr. Toreff, continued always with the Ambaffador of Siam.

Between the two first Inclosures, and under a Pent-house, is a small number of Soldiers unarmed and stooping. They are those Kenhai or Painted Arms, of whom I have spoken. The Officer who commands them immediately, and who is a Painted-Arm himself, is called Oncarac, and he and they are the Prince his Executioners; as the Officers and Soldiers of the Pretorian Cohorts, were the Executioners of the Roman Emperors. But at the fame time they omit not to warch the Prince's person, for in the Palace there is wherewith to arm them in cafe of need. They row the Balon of State, and the King of Stam has no other Foot guard. Their Employment is hereditary, like all thereft of the Kingdom; and the ancient Law imports that they ought not to exceed fix hundred: But this must doubtless be understood that there ought to be no more than fix hundred for the Palace: for there must needs be many more in the whole extent of the State; because that the King, as I have said elsewhere, gives thereof to a

very great number of Officers.

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ry great number of Officers.

But this Prince is not contented with this Guard on days of Ceremony, as Slaves for a was that of the first Audience of the King's Ambassadors. On such occasions Show. he causes his Slaves to be armed; and if their number is not sufficient, the Slaves of the principal Officers are armed. He gives to them all Ionie Mullin Shirts dyed red, Muskets, or Bows, or Lances, and Pots of gilded wood on their Heads, which for this purpose are taken out of the Magazine: and the quantity of which, in my opinion, determines the number of these Soldiers of flow. They formed a double Rank at the reception of M. de Chaumont; and To foon as he was past, those which he had left behind, made haste to get before by the by-ways, to go to fill up the vacant places which were left for them-In our time they marched by the fides of the Ambalfadors, till they flopt up the fipace through which they were to pas. We also found part of these Slaves prostrate before the little Stairs, which goes up to the Hall of Audience. Some held those little useles Trumpets, which I have spoken of; and others had before them those little Drums, which they never beat. The Mening Tchion are the Nai of all these Slaves; and these Slaves row the Balons of the King's retinue, and are moreover employed on feveral works.

and are moreover employed on teveral works.

Anciently the Kings of Siam had a Jappone's Guard, composed of fix hundred The King of Siam has no men: but because these fix hundred men alone, could make the whole King flathing Japadom to tremble when they pleased, the present King's Father, after having pone's Guard. made use of them to invade the Throne, found out a way to rid himself of them,

more by policy than force.

more by policy than force.

The King of Siam's Horle-guard is composed of Men from Laos, and another The Horle-guard from neighbouring Country, the chief City whereof is called Meen: and as the Meens Meen, and Laand Lass do serve him by fix Months, he makes this Guard as numerous as he or. pleases, and as many Horse as he would employ therein.

Oc-Coune Ran Patchi commands this Guard on the right hand: His Son is in France, and has for some years learnt the Trade of a Fountain-maker at Triannon. Oc-Coune Pipitcharatcha, or as the People say, Oc-Coune Petratcha, commands the half of this Guard, which serves on the left hand: but over these two Officers Oc-ya Lao commands the Guard of the Laos, and Oc-ya Meen the Guard of the Meen: and this Oc-ya Meen is a different person from him that profitutes lewd

Belides this the King of Siam has a foreign flanding Horse guard, which con-A Foreign fists in an Hundred and Thirty Gentlemen : but neither they, nor the Meen, Horse-Guard. nor the Laos, do ever keep Guard in the Palace. Notice is given them to accompany the King when he goes out, and thus all this is esteemed the exterior

Service, and not the interior Service of the Palace.

This foreign Guard confifts, first in two Companies of thirty Moors each, Of what it is Natives, or originally descended from the States of the Mogal, of an excellent compoted. Meen, but accounted Cowards. Secondly, in a Company of twenty Chinele Tartars armed with Bows and Arrows, and formidable for their Courage; and laftly in two Companies of Twenty five Men each, Pagans of the true India, habited like the Moors, which are called Rasbouts, or Raggibouts, who boast themselves to be of the Royal blood, and whose Courage is very famous, though it be only the effect of Opium, as I have before remarked. The King of Siam supplies this whole Guard with Arms, and with Horses: What it costs

and befides this every Moor costs him three Catis and twelve Teils a year, that is to fay 540 Livres, or thereabouts, and a red Stuff Vest; and every of the

two Moorish Captains five Catis and twelve Teils, or 840 Livres, and a Scarlet Vest. The Raggibouts are maintained according to the same rate; but every Chinese Tartar costs him only fix Teils, or 45 Livres a year, and their Captain fisteen Teils, Or 112 Livres, ten Sols.

the Palace.

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The Elephants In the first Inclosures are likewise the Stables of the Elephants and Horses, and Horses of which the King of Siam esteems the best, and which are called Elephants and Horses by Name: because that this King gives them a Name, as he gives to all the Officers within his Palace, and to the important Officers of the State, which in this are very much diffinguished from the Officers on whom he imposes none. He that hath the care of the Horses, either for their maintenance, or to train them up, and who is as it were the chief Querry, is called Oc Louang Tchampon; his Behat, or Lieutenant is Oc. Mening Si Sing Tonp Partchat; but he alone has the Priviledge of speaking to the King: Neither his Behat nor his other inferior Officers do fpeak unto him-

of Name.

The Elephants The Elephants of Name are treated with more or less Dignity, according to the more or less honourable Name they bear; but every one of them has several Men at his Service. They stir not out, as I have elsewhere declared, without trappings; and because that all the Elephants of Name cannot be kept within the Compass of the Palace, there are some which have their Stables close by

Of the White These People have naturally so great an esteem of Elephants, that they are perfivaded that an Animal fo noble, fo ftrong, and so docile, can be animated only with an illustrious Soul, which has formerly been in the body of some Prince, or of some great Person: but they have yet a much higher Idea of the White Elephants. These Animals are rare, and are found, say they, only in the Woods of Siam. They are not altogether Whire, but of a flesh colour, and for this reason it is that Vilet in the Title of his Relation has said, the White and Red Elephant. The Siamefes do call this colour Penak, and I doubt not that it is this colour inclining to White and moreover fo rare in this Animal, which has procur'd it the Veneration of those People to such a degree, as to perswade them what they report thereof, that a Soul of some Prince is always lodged in the body of a White Elephant, whether Male or Female it matters not. By the same reason of the colour, White Horses are those which the Siameses

By the tame reaton of the colour, White Horlesare those which the Siameses which the simple demands do make and store the simple store of the simp ameter do make of his Horses sick, intreated Mr. Vincent, that Physician which I have frequently colour in Ani-mentioned, to prescribe him some Remedy. And to perswade him to it (for he well knew that the European Physicians debased not themselves to meddle with Beasts) he acquainted him that the Horse was Mogol (that is to say White) of four races by Sire and Dam, without any mixture of Indian blood; and that had it not been for this confideration he would not have made him this request. The Indians call the White, Mogols, which they distinguish into Mogols of Alia, and Mogols of Europe. Therefore whence foever this respect is for the White colour, as well in Men as in Beafts, I could discover no other reason at Siam, than that of the veneration which the Siameses have for the White Elephants. Next to the White they most esteem those which are quite Black, because they are likewife very rare; and they Dye some of this colour, when they are not naturally Black enough. The King of Siam always keeps a White Elephant in his Palace, which is treated like the King of all those Elephants, which this Prince maintains. That which Mr. de Chaumont faw in this Country, was dead, as I have faid, when we arrived there. There was born another as they reported on the 9th of December 1687. a few days before our departure: but this Elephant was still in the Woods, and received no Visit, and so we saw no White Elephant. Other Relations have informed us how this Animal is ferved with Veffels of Gold.

The King of The Care of the King's Balons, and of his Gallies, belongs to the Calla hom. Siam's Balons. Their Arfenal is over against the Palace, the River running between. There every one of these Barges is lock d up in a Trench, whereinto runs the Water of the River; and each Trench is thut up in an Inclosure made of Wood, and covered. These inclosures are locked up, and besides this a person watches there at Night. The Balons of ordinary Service are not so adorned as those for

Ceremony; and amongst those for Ceremony there are some which the King gives to his Officers for these occasions only: for those which he allows them for ordinary Ceremonies, are less curious and fine.

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#### CHAP. XII.

Of the Officers which nearest approach the King of Siam's Person.

 $\mathbf{I}$ N the  $V_{ang}$  are fome of those single Halls which I have described; in which In what place the Oslicers do meet, either for their Functions, or to make their Court, or of the Palace Courters the Oslicers do meet, either for their Functions, or to make their Court, or of the Palace to wait the Orders of the Prince. The usual place were he shows himself unto them, is the Hall, where he gave How the King

Audience to the King's Ambaffadors; and he shows himself only through a of siam shows Window, as did antiently the King of China. This Window is from a higher himlelf to Chamber, which has this prospect over the Hall, and which may be faid to be them. of the first Story. It is nine Foot high or thereabouts; and it was necessary to place three steps underneath, to raise me high enough to present the King's Letter to the King of Siam. This Prince chofe rather to cause thee three steps to be put, than to see himself again obliged to stoop, to take the King's Letter from my hand, as he had been obliged to do, to take that which Mr. de Chanmont deliver'd him. Tis evident by the Relation of Mr. de Chaumont, that he had in his hands a kind of Gold Cup, which had a very long handle of the same matter; to the end that he might use it to give the King's Letter to the King of Siam. He did it, but he would not take this Cup by the handle to raise the Letter; fo that it was necessary that the King of Siam should stoop out of the Window to receive it. 'Tis with the same Cup, that the Officers of this Prince deliver him every thing that he receives from their hands. At the two Corners of the Hall which are at the fides of this Window, are two doors about the heighth of the Windows, and two pair of very narrow Stairs to ascend. For the Furniture there is only three Umbrella's, one before the Window with nine rounds, and two with feven rounds on both fides of the Window. The Umbrella is in this Country as the Daiz or Canopy is in France.

Tis in this Hall that the King of Siam's Officers, which if you please, may be The King of named from his Chamber, or rather his Anti-chamber, do expect his Orders. Siam's Pages. He has Forty four young men, the oldest of which hardly exceeds twenty five years of Age: the Siamefer do call them Mahatlek, the Europeans have called them Pages. These Forty four Pages therefore are divided into four Bands, each confifting of eleven: the two first are on the right hand, and do prostrate themselves in the Hall at the King's right hand; the two others are on the left hand, and do proftrate themselves on the left hand. This Prince gives them every one a Name and a Sabre; and they carry his Orders to the Pages without, which are numerous, and which have no Name, that is imposed on them by the King. The Siameles do call them Caloang, and 'tis these Caloangs that the King ordinarily fends into the Provinces upon Commissions, whether ordinary, or extraordinary.

Belides this the Forty four Pages within have their Functions regulated: Some, Their Functifor example, do ferve Betel to the King, others take care of his Arms, others ons.

do keep his Books, and when he pleases they read in his presence.

This Prince is curious to the highest degree. He caused & Curious to be How the translated into Siamese, whilst we were there, and has since order of several of our King of Siam Histories to be translated: He understands the States of Europe; and I doubt lovesReading. not thereof, because that once, as he gave me occasion to inform him that the Empire of Germany is Elective, he asked me whether besides the Empire and

Poland, there was any other Elective State in Europe? And I heard him pronounce the word Polonia, of which I had not spoken to him. Some have asfur'd me that he has frequently afferted, that the Art of Ruling is not inspired. and that with great Experience and Reading he perceived that he was not yet perfect in understanding it. But he defign'd principally to study it from the History of the King: he is desirous of all the News from France; and so soon as his Ambaffidors were arrived, he retained the third with him, until he had read their Relation to him from one end to the other.

The Officers To return to the Forty-four Pages, Four Officers command them; who, bewhich com- cause they so nearly approach the Prince, are in great esteem, but yet not in an mand the Pa- equal degree: for there is a great difference from the first to the second, from the fecond to the third, and from the third to the fourth. They bear only the the tecond to the third, and from the third to the fourth. Incy pear only the Title of Or-Maing, or of Pra-Maing: Mening Vai, Mening Sarapet, Mening Semengtehai, Meningfii. The Subers and Poniards which the King gives them are adorned with some precious Stones. All four are very considerable Nai, having a great many subaltern Officers under them; and though they have only the Title of Mening, they cease not to be Officers in chief. The Pa-ya, the Oc. 1a, the Oc. pra, and the other Titles are not always subordinate to them, only the one must command more persons than the other. In a word, twas Meuinglis which accompany'd Mening Tehion on Board our Ships, to bring to the King's Ambassadors the first Compliment from the King of Siam, and it was to him that Mening Tchion, tho' higher in dignity, gave the precedency and the word; because that Meningsii was three or four years older, but the eldest of

the King of

Whilst the Ambassadors were at Audience, there was in one place an Officer, Officer which whom we perceived not, who alone, as they informed me, has the Priviledge of profitates not not profitating himfelf before the King his Mafter; and this renders his Office himfelf before very honourable. I forgot to write down his Title in my Memoirs. He always the King of has his Eyes fixed upon this Prince, to receive his Orders, which he understands by certain Signs, and which he fignifies by Signs to the other Officers which are without the Hall. Thus when the Audience was ended, I would say when the King had done speaking to us, this Prince, in that silence which is profound, gave fome Signal, to which we gave no heed; and immediately at the bottom of the Hall, and in an high place, which is not visible, was heard a tinkling Noise, like that of a Timbrel. This Noise was accompany'd with a Blow, which was ever and anon struck on a Drum, which is hung up under a Penthouse without the Hall, and which for being very great, renders its sound grave and Majestic; it is cover'd with an Elephant's Skin: yet no person made any motion, till that the King, whose Chair an invisible hand did by little and little draw back, removed himself from the window, and closed the Shutters thereof; and then the Noise of the tinkling and of the great Drum ceased.

#### CHAP. XIII.

Of the Women of the Palace, and of the Officers of the

The King of AS to the King of Siam's Chamber, the true Officers thereof are Women, tis they only that have a Priviledge of entering therein. They make his Bed, and dress his Meat; they cloath him, and wait on him at Table: but none but himself touches his Head when he is attir'd, nor puts any thing over his Head. The Pourveyors carry the Provisions to the Eunuchs, and they give them to the Women; and the which plays the Cook, uses Salt and Spices only by weight, thereby never to put in more nor less: A practice, which, in my opinion, is only a Rule of the Phylicians, by reason of the King's unhealthy difposition, and not an ancient custom of the Palace.

The Women do never flir out but with the King, nor the Eunuchs without Of the late express Order. 'Fis reported that he has eight or ten Eunuchs only, as well wife and his white as black. The late Queen, who was both his Wife and his Sifter, was Sifter. called Nang Achamabifii. It is not easie to know the King's Name, they carefully and superstitiously conceal it, for fear lest any Enchantment should be made on his Name. And others report, that their Kings have no Name till after their death, and that it is their Succeffor which names them, and this would

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be more certain against the pretended Sorceries. Of Queen Achamabifii is born, as I have related in the other Part, the Princels, Of the Printhe King of Siam's only Daughter, who now has the Rank and House of a cets his only Queen. The King's other Wives (which in general are called Tehnon Vang, Daughter. because that the word Tchaou, which fignifies Lord, fignifies likewise Lady and Mistress ) do render Obedience to her, and respect her as their Soveraign. They are subject to her Justice, as well as the Women and Eunuchs which serve them; because that not being able to stir out, to go plead elsewhere, it necessarily sollows that the Queen should judge them, and cause them to be chassised, to keep them in peace. This is thus practifed in all the Courts of Asia; but i: is not true neither at Siam, nor perhaps in any part of the East, that the Queen has any Province to govern. 'Tis easie also to comprehend, that if the King loves any of his Ladies more than the reft, he causes her to remove from the Jealousie and harsh Usage of the Queen.

At Siam they continually take Ladies for the service of the Vang, or to be The King of At Siam they continually take Ladies for the little of the Siamefes de Siam takes Concubines to the King, if this Prince makes use thereof. But the Siamefes de the Daughters liver up their Daughters only by force, because it is never to see them again; of his Suband they redeem them so long as they can for Money. So that this becomes jects for his a kind of Extortion, for they defignedly take a great many Virgins meerly to Palace, when restore them to their Parents, who redeem them,

The King of Siam has few Mistresses, that is to say eight or ten in all, not He has few out of Continency, but Parlimony. I have already declared, that to have a Miltreffes. great many Wives, is in this Country rather Magnificence, than Debaucherv. Wherefore they are very much furprized to hear that so great a King as ours has no more than one Wife, that he had no Elephants, and that his Lands bear no Rice; as we might be, when it was told us that the King of Siam has no Horses, nor standing Forces, and that his Country bears no Corn nor Grapes, altho' all the Relations do so highly extol the Riches and Power of the Kingdom of Siam.

The Queen hath her Elephants and her Balons, and some Officers to take The Queen's care of her, and accompany her when the goes abroad; but none but her Women House, and Eunuchs do fee her. She is conceald from all the reft of the People; and when the goes out either on an Elephant, or in a Balon, it is in a Chair made up with Curtains, which permit her to fee what the pleafes, and do prevent her being feen: And Respect commands, that if they cannot avoid her, they should turn their back to her, by prostrating themselves when she passes along.

Belides this she has her Magazine, her Ships, and her Treasures. She exercises Her Magazine Commerce; and when we arrived in this Country, the Princess, whom I have and her Ships. reported to be treated like a Queen, was exceedingly embroiled with the King her Father, because that he reserved to himself alone almost all the Foreign Trade, and that thereby the found herfelf deprived thereof, contrary to the ancient Cuftom of the Kingdom.

Daughters fucceed not to the Crown, they are hardly look'd upon as free. Of the Suc-Nevertheles because that the Stamese can hardly conceive that amongst Prince Coron, and Carlos of near the same Rank, the most aged should profit at his infest before the which render younger; it frequently happens that amongst Brethren, tho' they be not all Sons it uncertain. of the Queen, and that amongst Uncles and Nephews, the most advanced in Age is preferred, or rather it is Force which always decides it. The Kings themfelves contribute to render the Royal Succession uncertain, because that instead of chusing for their Successor the eldest Son of the Queen, they most frequently follow the Inclination which they have for the Son of some one of their Concubines with whom they were enamour'd. 'Tis

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'Tis upon this account that the King of Bantam, for example, has loft his which tendred Crown and his Liberty. He endeavoured to get one of his Sons, whom he had by one of his Concubines, to be acknowledged for his Succeffor before his Death: and the eldeft Son which he had by the Queen put himself into the hands of the Hollanders. They fet him upon the Throne after having vanquished his Father, whom they still keep in Prison, if he is not dead: but for the reward of this Service they remain Mafters of the Port, and of the whole Commerce of Ban-

Of the Succes-

The Succession is not better regulated at China, though there be an express and very ancient Law in favour of the eldeft Son of the Queen. But what Ringdom of Rule can there be in a thing, how important foever it be, when the Paffions of the Kings do always feek to imbroil it? All the Orientals, in the choice of a Governor, adhere most to the Royal Family, and not to a certain Prince of the Royal Family: uncertain in the fole thing wherein all the Europeans are not. In all the reft we vary every day, and they never do. Always the same Manners amongst them, always the same Laws, the same Religion, the same Worflip; as may be judged by comparing what the Ancients have writ concerning the Indians, with what we do now see.

Of the King of

I have faid that 'tis the Women of the Palace which dress the King of Siam's but they have no charge of his Wardrobe; he has Officers on purpose. The most considerable of all is he that touches his Bonnet, altho he be not permitthed to put it upon the Head of the King his Mafter. Tis a Prince of the Royal blood of Camboya; by reason that the King of Siam boats in being thence defeended, not being able to vaunt in being of the race of the Kings his Predeceffors. The Title of this Master of the Wardrobe is Ocya Out haya tames, which of this provinces has be Title of the Wardrobe. which sufficiently evinces that the Title of Pa ya does not fignifie Prince, seeing that this Prince wears it not. Under him Oc-Pra Ranja Vounfa has the charge of the cloaths. Rajja or Raja or Ragi or Ratcha, are only an Indian term variously pronounced, which fignifies King, or Royal, and which enters into the compofition of several Names amongst the Indians.

## C H A P. XIV.

Of the Customs of the Court of Siam, and of the Policy of its Kings.

The Hours of The common ulage of the Court of Siam is to hold a Council twice a day; about Ten a clock in the Morning, and about Ten in the Evening, reckoning the hours after our fashion.

As for them, they divide the day into Twelve hours, from the Morning to the of the day and Night: The Hours they call Mong: they reckon them like us, and give them or the day and right: The Frours they can proof the Side vide it into four Watches, which they call Triam, and it is always broad Day at the end of the Fourth. The Latin, Greek, Jews, and other people have divided the Fourth of the Fourth o

ded the Day and Night, after the fame manner.

The People of Siam have no Clock, but as the Days are almost equal there all the Year, it is easie for them to know what Hour it is, by the fight of the Sun. In the King's Palace they use a kind of Water-Clock: 'Tis a thin Copper Cup, Their Clock. at the bottom of which they do make an almost imperceptible hole. They put it quite empty upon the water : which by little and little enters therein through the hole; and when the Cup is full enough to fink down, this is one of the hours, or a twelfth part of the day. They measure the Watches of the Night by such a like method, and they make a Noise on Copper Basons when the Watch is ended. I have

I have related how Caufes are determined in the King of Stam's Council: Af-How the King faits of State are there examined, and decided almost after the fame manner of Stam examined. That Councellor to whom this Prince has committed a business, makes the rein his Council, port thereof, which confifts in reading it, and then proceeds to the confultative and how he Opinions, and hitherto the King's Prefence is not necessary. When he is terminates come he hears the report, which is read to him concerning the former Confult, them. he refumes all the advices, confutes those which he approves not, and then decides. But if the Affair feems to him to merit a more mature deliberation, he makes no decifion: but after having proposed his difficulties, he commits the examination thereof to some of his Council, whom he purposely appoints; and principally to those who were of a different Opinion from his. They, after the principal of the decay and the matter of the principal of the council the council of the principal of the council of the principal of t ter having again consulted together, do cause the report of their new Consultation to be made by one of them, in a full Council, and before the King; and hereupon this Prince confummates his Determination. Yet fometimes, but very rarely, and in affairs of a cerrain Nature, he will confult the principal Sancras, which are the Superiors of the Talapoins; whose credit in other matters he depresses as much as he can, though in appearance he honors them exceedingly. In a word, there is such a fort of affairs, wherein he will call the Officers of the Provinces: but on all occasions, and in all affairs, he decides when he pleases; and he is never constrained to either ask advice of any person, or to follow any

other advice than his own.

He oftentimes punishes ill Advice, or recompences good. I fay good or bad He punishes according to his sense, for he alone is the Judge thereof. Thus his Ministers do bad Counsels, and the mister of the sense of

Opinion from them. In a word, the affair on which he confults them, is not always a real con-Sometimes he in a word, the attair on which he commission is not always a tear con-cern; its fometimes a question, which he propounds to them by way of Affairs inven-

He likewise has a custom of examining his Officers about the Pra-Tam-Ra, Exercise.

which is that Book, which I have faid contains all their Duties; and causes He examines his Officers. which is that Book, which I have laid commiss an unit builts; and cause his Officers a fuch to be chastized with the Bastinado, who answer not very exactly; even bout their Ob-

as a Father chaftizes his Children in instructing them.

Tis an ancient Law of the State established for the security of the King, A Law against whose Authority is naturally almost unarmed, that the Courtiers should not the Ambition render him any visit without his express leave, and only at Weddings and Fu-Men. nerals, and that when they meet, they should speak with a loud voice, and in the presence of a third person: but if the Kings of Siam be unactive, or negligent, not any Law fecures them. At prefent the Courtiers may appear again at the Academy of Sports, where the great number feems to take away all op-

portunity of Caballings. The Trade of an Informer, so detelted in all places where men are born free, The Trade of is commanded to every person at Siam, under pain of death for the least things; an Informer and so whatever is known by two Witnesses, is almost infallibly related to the siam by the King: because that every one hastens to give information thereof, for fear of Law. being herein prevented by his Companion, and remain guilty of Silence.

The prefent King of Stam relies not in an important affair upon the fingle re-The present King or Siam renes not in an important and upon the impere Siam Presau-port of him to whom he has committed it; but neither does he rely also on the tions to prereport of a fingle Informer. He has a number of fecret Spies, whom he fepa- vent being derately interrogates; and he fometimes fends more than one to interrogate those ceived. who have acted in the affair, whereof he would be informed.

And yet it is easie for him to be deceived; for throughout the Country eve- Why they are ry Informer is a dilhonest man, and every dishonest man is an Insidel. More-frequently inover Flattery is so great in *India*, that it has perhaded the *Indian* Kings, that if it effectuals is their interest to be informed, it is their dignity to hear nothing that may displease them. As for example, they will not tell the King of *Siam*, that he wants Slaves or Vaffals, for any enterprize he would go about. They will not tell him that they cannot perform his Commands: but they execute them ill, and when the mischief appears, they will excuse it by some defect. They will tell

him ill news quite otherwise than it is; to the end that the truth reaching his Ears only by degrees, may vex him less, and that it might be easier to pacifie him at feveral times. They will not counsel him a bad thing; but will so infinuate it, that he may think himself the Author, and only take to himself the bad fuccels. And then they will not tell him that he must alter a thing that he has done amis; but they will persuade him to do it better some other way, which will only be a pretence: and in the new project they will forprefs, without acquainting him, what they defigned to reform, and will put in the place what they defigned to eftablish. I my felf have feen part of what I relate, and and they have affured me the reft.

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Now fuch like Artifices are always very perilous; they offend the prefent Stam rigorous King in nothing without being punish'd. Being severe to extream rigour, he puts to death whom he pleases without any formality of Justice, and by the hand of whom he pleases, and in his own Presence: And sometimes the Accuser with the Criminal, the Innocent with the Calumniator: for when the proofs remain doubtful, he, as I have faid, exposes both parties to the Tygers.

How he indead body.

After the Execution he infults over the dead body with some words, which fults over the are a leffon to the living; as for example, after having made him who had robbid his Magazine, to fwallow fome melted Silver, he fays to the dead body, Miferable wretch, thou hast robb'd me of Ten Pieces of Silver, and Three Ounces only are sufficient to take away thy life. Then he complains that they with held him not in his Anger; either that he indeed repents fometimes of his precipitate Cruelties, or that he would make believe that he is cruel only in the fift

The Various of Siam,

Sometimes he exposes a Criminal to an enraged Bull, and the Criminal is Punishments armed with a hollow flick, configuratly proper to caule fear, but not to of the Court wound, with which he defends himself some time. At other times he will give the Criminal to Elephants, fometimes to be trampled under foot and flain, sometimes to be tossed without killing: for they affirm that the Elephants are docible to that degree, and that if a Man is only to be toffed, they throw him one to the other, and receive him on their Trunck, and on their Teeth, without letting him fall on the ground. I have not feen it, but I cannot doubt of the manner which they have affured me.

But the Ordinary Chastifements are those, which have some relation to the ments have Nature of the Crimes. As for example, Extortion excercised on the People, respect to the and a Robbert committed as the Desirable Property of the Crimes. and a Robbery committed on the Prince's Money, will be punished by the swallowing of Gold or Silver melted: Lying, or a Secret revealed, will be punished by Sowing up the Mouth. They will flit it to punish Silence, where livis not to be kept. Any Fault in the execution of Orders, will be Chastifed by pricking the Head, as to punish the Memory. To prick the Head, is to cut it with the edge of a Sabre: but to manage it securely, and not to make too great wounds, they hold it with one hand by the Back, and not by the Handle. The punishment of the Glave or Sword is not executed only by cutting the

The punish-Cudgel.

ment of the Head off, but by cutting a man through the middle of the Body: And the Sword and the Cudgel is sometimes also a punishment of death. But when the Chastisement of the Cudgel ought not to extend to death, it ceases not to be very rigorous, and frequently to cause the loss of all knowledge.

The Punish-

If the matter is to put a Prince to death in form, as it may happen, or when a King would rid himself of some of his Relations, or when an Usurper would which Prin-extinguish the race, from which he has ravish'd the Crown, they make it a piece of Religion not to shed the Royal blood: but they will make him to die with hunger, and fometimes with a lingering hunger, by daily substracting from him fomething of his food; or they will stifle him with Rich Stuffs; or rather they will firetch him on Scarlet, which they mightily effecm, because the Wool is rare, and dear; and there they will thrust into his Stomach a billet of Saunders Wood. This Wood is odoriferous, and highly effcem'd. There are three forts; the white is better than the yellow, and both do grow only in the Isles of Solor and Timor, to the East of Java. The red is esteemed the least of all, and it grows in feveral places. The

The Kings of Asia do place their whole fecurity in rendering themselves formi. The extreme dable, and from time out of mind they have had no other Policy: whether that diffruft of the dable, and from time out of mind they have had no other Policy: whether that Kings of Sim: a long Experience has evinced that these People are uncavable of Love for their Kings of Sim: a long Experience has evinced that these People are uncapable of Love for their Soveraign; or that these Kings would not be advised that the more they are fear'd, the more they have to fear. However it be, the extream diffrust in which the Kings of Siam do always live, appears sufficiently in the cares which they take to prevent all fecret Correspondence amongst the great Men, to keep the Gates of their Palace thut, and to permit no armed person to enter, and to difarm their own Guards. A Gun fired, by accident or otherwife, so near the Palace that the King hears it, is a capital Crime; and the noise of a Pistol being heard in the Palace, a little after the Conspiracy of the Macassars, 'twas doubted whether the King had not with this shot killed one of his Brothers; because that the King alone has power to shoot, and that moreover one of his Brethren had been suspected of having medled in this Conspiracy: and this doubt was not cleared when we left Siam.

Besides these Punishments which I have mentioned, they have some less do- Infamous Pulorous, but more infamous, as to expose a Man in a public place loaded with nithments. Irons, or with his Neck put into a kind of Ladder or Pillory, which is called Cangue, in Stamele KA. The two fides of this Ladder are about fix foot long, and are fathed to a Wall, or to Polts, each at one end, with a Cord; infomuch that the Ladder may be raised up, and let down, as if it was faftened to Pullies. In the middle of the Ladder are two Steps or Rounds, between which is the Neck of the Offender, and there are no more Rounds than these two. The Offender may fit on the ground, or fland, when the weight of the Ladder, which bears upon his Shoulders, is not too big, as it is sometimes; or when the Ladder is not fastned at the four ends: for in this last Case it is planted in the Air, bearing at the ends upon Props, and then the Criminal is as it were hung by the Neck; he hardly touches the ground with the Tips of his Toes. Befides this, they have the use of Stocks and Manacles.

The Criminal is sometimes in a Ditch to be lower than the ground; and this Ditch is not always broad, but oftentimes it is extremely narrow, and the Criminal, properly speaking, is buried up to the Shoulders. There, for the greater Ignominy, they give him Cuffs or Blows on the Head; or they only froke the hand over his Head, Affronts esteemed very great, especially if received from the hand of a Woman.

But what is herein very particular, is, that the most infamous Punishment is The shame of But what is herein very particular, is, that the most infamous Punishment is The shame of Punishment is the Punishment is the Punishment is the shame of the punishment is the pun morrow, if the Prince thinks fit, into the most important Offices.

Moreover, they boaft of the Punishments which they receive by Order of the Punishment King as of his paternal care for him whom he has the good of their King, as of his paternal care for him whom he has the goodness to cha-ments. then King, as of the paternal care for him wholl the has the goodness of that helds the Herceives Compliments and Prefents after the Bastinado, and it is print it is attended this. Hence with Honore cipally in the East that Chastisements do pass for testimonies of Affection. We with Honour faw a young Mandarin shut up to be punished, and a Frenchman offering him to go and ask his Pardon of his Superior: No, replied the Mandarin in Portuguese, I would fee how far his Love would reach; or as an European would have faid, 1 would fee how far he will extend his Rigor. To be reduced from an eminent place to a lower is no Reproach, and this befel the fecond Ambassador whom we saw here. Yet it happens also, that in this Country they hang themselves in despair, when they fee themselves reduced from an high Employment to an extreme Poverty, and to the fix Months Service due to the Prince, the this Fall be not shameful.

I have faid in another place, that a Father shares sometimes in the punishment Others are inof the Son, as being bound to answer for the Education which he has given him. cluded in the At China an Officer aniwers for the Faults of all the persons of his Family, be- Punishments At Come an Onicer aniwers for the Faund of an tie performs of the Faining, or with the Cricaule they pretend, that he who knows not how to govern his own Family, is not with the Cricaule they pretend, that he will be a supply the Cricault of the Cricault capable of any public Function. The Fear therefore, which particular perfons have of feeing their Families turned out of the Employments, which do make the Splendor and Support thereof, renders them all wife, as if they were all Magistrates. In like manner at Siam, and at China, an Officer is punished for

the Offences of another Officer that is subject to his Orders, by reason that he is to watch over him that depends on him; and that having power to correct him, he ought to answer for his conduct. Thus about three years since we saw at Siam for three days, Oc-Pra-Simo-ho-fot, by Nation a Brame, who is now in the King of Stam's Council of State, exposed to the Cangue with the head of a Malefactor, which they had put to Death, hung about his Neck; without being accused of having had any other hand in the crime of him, whose head was hung to his Neck, than too great Negligence in watching over a Man that was subject to him. After this tis no wonder in my opinion, that the Bastinado should be so frequent at Siam. Sometimes there may be seen several Officers at the Cargue, disposed in a Circle 3 and in the midd of them will be the head of a man, which they have put to death 3 and this head will hang by several strings from the Neck of every one of these Officers.

The least pretence for a Crime is punished.

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The worst is, that the least appearance of guilt renders an action criminal: To be accused is almost sufficient to be culpable. An action in it self innocent becomes bad, fo foon as any one thinks to make a Crime thereof. And from thence proceed the fo frequent diffraces of the principal Officers. They know not how, for instance, to reckon up all the Barcalons that the King of Siam has had

fince he reigned.

thren.

The Policy of The Greatness of the Kings, whose Authority is despotical, is to exercise the Kings of Power over all, and over their own Brethren. The Kings of Siam do maim Siam, cruel a rower over all, and over their own Brethren. The Kings of Siam do maim gainfiall, and them, in feveral ways, when they can: they take away or debilitate their fight gaint and a significant own Bre-by Drinks, fecuring themselves and their by Drinks, fecuring themselves and their Children against the Enterprizes of oy Drinks, recurring themselves and their Children against the Enterprizes of their Brethren, only by tendring them incapable of reigning: he that now reigns has not treated his better. This Prince will not therefore envy our King, the fweetnefs' of being beloved by his Subjects, and the Glory of being dreaded by his Enemies. The Idea of a great King is not at Stam, that he fivould render himself terrible to his Neighbours, provided he be for to his Subjects.

The Govern- Yet there is this Reflection to be made on this fort of Government, that the ment of Siam Yoke thereof is less heavy, if I may so say, on the Populace than on the Nobles. more burden. Yoke thereor is less heavy, it is may to lay, on the Populace than on the Nobles fome to the Nobles than ments of Life are for the vulgar Conditions. The more one is unknown to to the Popu- the Prince, and the further from him, the greater Ease he enjoys; and for this reason the Employments of the Provinces are there considered, as a Recompence of the Services done in the Palace.

How tempe

The Ministry there is tempestuous: not only thro the natural Inconstancy, which may appear in the Prince's Mind; but because that the ways are open for all persons to carry complaints to the Prince against his Ministers. And though the Ministers and all the other Officers, do employ all their artifices to render these ways of complaints ineffectual, whereby one may attack them all, yet al' complaints are dangerous, and sometimes it is the slightest which hurts, and which subverts the best established favour. These examples, which very frequently happen, do edifie the People; and if the present King had not too far extended his exactions without any real necessity, his Government would as much please the Populace, as it is terrible to the Nobles.

Nevertheless he has had that regard for his People, as not to augment his Siam's regards Duties on cultivated Lands, and to lay no imposition on Corn and Fish; to the end that what is necessary to Life might not be dear: A moderation so much the more admirable, as it feems that they ought not to expect any from a Prince educated in this Maxim, that his Glory confifts in not fetting limits to his power, and always in augmenting his Treasure.

The Inconve- But these Kings which are so absolutely the Masters of the Fortune and Life niences of this of their Subjects, are so much the more wavering in the Throne. They find Government of their Subjects, at 10 indeff the fine tweether at the not in any person, or at most in a small number of Domesticks, that Fidelity Prince wave or Love which we have for our Kings. The People which poffess nothing in property, and which do reckon only upon what they have buried in the ground, as they have no folid establishment in their Country, so they have no obligation thereto. Being refolved to bear the fame Yoke under any Prince whatever, and

having the affurance of not being able to bear a heavier, they concern not themfelves in the Fortune of their Prince: and experience evinces that upon the least trouble they let the Crown go, to whom Force or Policy will give it. A Siamele, a Chinese, an Indian, will easily die to exert a particular Hatred, or to avoid a miserable Life, or a too cruel Death: but to die for their Prince and their Country, is not a Vertue in their practice. Amongst them are not found the powerful motives, by which our Peopleanimate themselves to a vigorous Defence. They have no Inheritance to lofe, and Liberty is oftentimes more burdenfom to them than Servitude. The Siamefes which the King of Pegu has taken in war, will live peaceable in Pegu, at Twenty miles distant from the Frontiers of Siam, and they will there cultivate the Lands which the King of Pegu has given them, no remembrance of their Country making them to hate their new Servitude. And it is the fame of the Peguins, which are in the Kingdom of Siam.

Part III.

The Eastern Kings are looked upon as the adoptive Sons of Heaven. 'Tis How uncer-The Eastern Kings are looked upon as the adoptive Sons of Fleaven. The tain the exbelieved that they have Souls celeftial, and as high above other Souls by their tream Respect Merit; as the Royal Condition appears more happy than that of other men of the Orien-Nevertheless, if any one of their Subjects revolts, the People doubt prefently tals is for their which of the two Soul is most valuable, whether that of the Lawful Prince, Kings. or that of the Rebellious Subject; and whether the Adoption of Heaven has not passed from the King to the Subject. Their Histories are all full of these examples: and that of China, which Father Martinius has given us, is curious in the ratiociniations, by which the Chineses, I mean the Chinese Philosophers, are often perswaded that they followed the Inclination of Heaven in changing their Soveraign, and sometimes in preferring a High-way-man before their Lawful

But besides that the despotick Authority is almost destitute of desence, it is These Princes moreover rather usurped by him that possessing in that the exercise thereof is do oftentimes less communicated. Whoever takes upon him the Spirit or Person of a Prince, thority by behas almost nothing more to do to disposses the Prince; because that the exercise ing too jeaof the Authority being too much reunited in the Prince, there is none befides lous. him that prohibits it in case of need. Thus is it not lawful for a King to be a Minor, or too easie to let himself be governed. The Scepter of this Country soon falls from hands that need a support to sustain it. On the contrary, in Kingdoms where several permanent bodies of Magistracy divide the Splendor and the Exercise of the Royal Authority, these same bodies do preserve it entire for the King, who imparts it to them; because they deliver not to the Usurper that part which is in their hands, and which alone suffices to fave that which the King himself knows not how to keep.

In the ancient Rebellions of China it appears, that he who seized on the Royal The peril in Seal, prefently rendered himself Master of all; because that the people obeyed re-uniting all Seal, pretently rendered hinten Matter of any pecaule that the people obeyed the render the Orders where the Seal appeared, without informing themselves in whose the Royal Authoridate Seal was. And the Jealouffe which the King of Siam has of his, that Seal. I have faid he intrufts with no perfon, perfuades me that it is the fame in his Country. The danger therefore to these Princes is in that wherein they place their fecurity. Their Policy requires that their whole Authority should be in their Seal, to exercise it more entire themselves alone: And this Policy as much exposes their Authority, as their Seal is easie to lose.

The same danger is found in a great Treasure, the only spring of all the De- A publick The tame danger is found in a great Treature, the only points of a first point of the found poople cannot fupply extraordinary Treature ne-found from the first point of the found point of the found for the first point of the found for the first point of the found for reunite themselves, and he that seizes on the Treasure, seizes on the State. So vernments, that belides a Treasures ruining the People, on whom it is levied, it frequently and what are ferves against those that accumulate it; and this likewise draws the dissipation the Inconveniences there-

The Indian Government has therefore all the defects of the Despotick Go-The Concluvernment. It renders the Prince and his Subjects equally uncertain: It betrays fion of this the Royal Authority, and delivers it up entire, under pretence of putting the Chapter. more entire Management thereof into the hands of a fingle person; and moreover it deprives it of its natural defence, by separating the whole Interest of the

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Subjects from that of the Prince and State. Having therefore related how the Kings of Siam do treat their Subjects, it remains to show how they treat, as well with foreign Princes by Embassies, as with the foreign Nations which are fled to Si.m.

### CHAP. XV.

# Concerning the Form of Embassies at Siam.

The Eastern

An Ambaffador throughout the East is no other than a Kings Meffenger: They honour him little, in comparison of represent not the respects which are render'd to the Letters of Credence whereof he is Bearer. their Masters, Mr. de Chaumont, tho an Ambassador extraordinary, never had a Balon of the honored than Body, not on the very day of his entrance; and it was in a Balon of the Body that the Kings Letter was put, which he had to deliver to the King of Siam. This Balon had four Umbrella's, one at each corner of the Seat; and it was attended with four other Balons of the Body, adorn'd with their Umbrellas, but empty; as the King of Spain, when he goes abroad in his Coach, and that he would be feen and known, has always one which follows him empty, which is called de referto, a word and cultom come from tedy. The Kings Preferts were likewife carry d in Balon of the Body; and the fame things were observed at the entrance of the Kings Envoys. Thus the Orientals make no difference between an Ambassador and an Envoy: And they understand not Ambassadors, nor ordinary Envoys, nor Refidents; because they send no person to reside at a foreign Court, but there to dispatch a business, and return.

The Siameses do never send more nor less than three Ambassadors together. Emballies con-

The first is called Rayja Tour, that is to say, Royal Messenger, the second Oubba Tout, and the third Tri Tout (terms which I understand not) but the two last Ambaffadors are obliged in every thing to follow the Advice of the first.

perfous. They are looked upon Le:ter.

The Siamele

fifts in three

Every one therefore who is the carrier of a Letter from the King, is reputed an Ambassador throughout the East. Wherefore, after the Ambassador of as mentengers a Persia, which Mr. de Cheumont lest in the Country of Siam, was dead at Tenasferim, his Domesticks having elected one amongst them, to deliver the King of Persia's Letter to the King of Stam, he that was elected was received without any other Character, as the real Ambassador would have been, and with the fame honors which the King of Persia had formerly granted to the Ambassador of

He returns them no Anfwer, but a

But that wherein they treat an Ambaffador like a meer Messenger, is, that the King of Siam, in the Audience of Leave, gives him a Recepisse of the Letter he has received from him; and if this Prince teturns an Answer, he gives it not to him, but he fends his own Ambaffadors with him to carry it.

How the King A foreign Ambassador which arrives at Siam, is stopped at the Entrance of of stim is ad the Kingdom, until the King of Siam has received intelligence thereof; and if whive lot the kingdot the Arrival of the kingdot the kingd Ambassador. amele Ambassadors to go before, to carry unto the King their Master, the news of their Arrival, and of the Arrival of the foreign Ambaffador, whom they

brought with them. Every foreign Ambassador is lodged and maintained by the King of Siam, dor hashis and during the time of his Embaffy he may exercise Merchandize; but he Charges born cannot treat of any affair till he has delivered his Letter of Credence, and at Siam. He communicated his Original Inftructions. They dispensed with this last Armuit Communicated his Original Inftructions. nate his In-ticle to Mr. de Chanmont, and the King's Envoys; but the Ambaffadors of Siam dispenced not therewith in France: They communicated their Instru-

The Ambaffador cannot enter into the Metropolis, till he goes directly to He enters not Audience, nor continue therein till after the Audience of Leave: in going from tropolistillte the Audience of Leave he departs out of the City, and negotiates nothing goes to Aumore. Wherefore on the Evening before the Audience of Leave, the King of dience, and dea Siam demands of him, whether he has any thing to propose? And in the Audience parts thence in of Leave, he asks him, If he is contented?

Part III. of the Kingdom of SIAM.

The Majefly of the Prince refides principally in the Metropolis, its there that of Leave, the Solemn Audiences are given; our of this City every Audience is accounted The Solemn private, and without Ceremony. The whole Guard, as well the Ordinary, as Audiences, that of Oftentation, was not in Arms for the Audience at Come the Electron. that of Oftentation, was put in Arms for the Audience at Siam: the Elephants and the Horses appear'd with their best Harness, and in great number, on the Entry of the King's Envoys, and there was almost nothing of all this for the Audiences at Louvo. At Siam the Umbrella, which was before the King's window, had nine Rounds, and the two which were at the fide had feven each. At Louve the King had no Umbrella before him, but two on each fice, which had each four Rounds apiece, and which mounted up much lower than those of Siam. The King was not at Louvo at a fingle window, as at Siam; he was in a wooden Tower joined to the Floor of the Hall, into which he enter'd behind, and immediately, by a Step higher than the Hall. So that tho' this Prince was as high at Louvo as at Siam, yet he was at Louvo in the Hall of Audience; whereas at Siam he was in another Room, which had a Prospect into the Hall. Moreover, the Gate of the Hall at Lonvo was large, and in the middle of the Tower, that is to say opposite to the King; whereas at Siam the door was low and strait, and almost at the corner of the Hall: differences, which have all their reasons in this Country, where the least things are measured and performed with diligence. At the Audience at Siam there were 50 Mandarins prostrate in the Hall, 25 on each fide, in five Ranks, each confifting of five. At the Audiences at Louvo there were no more than 32, 16 on each fide, in four Ranks, of four in a Rank. The Audience of Reception, where the Letter of Credence is delivered, is always given in the chief City, and with all the magnificence imaginable, in respect to the Letter of Credence: the other Audiences are given without the City, and with less Pomp, because there appears no Letter from the

The Custom in all Audiences is, that the King speaks first, and not the Am-What is obbaffador. What he speaks in Audiences of Ceremony, is reduced to some served in Audiences. Questions almost always the same; after which, he orders the Ambassador to address himself to the Barcalon upon all the Propositions which he has to make. Harrangues please him not at all; tho' he had the goodness to acquaint me, upon the Compliments I had the Honour to make to him, that I was a great Contriver of Words. We were fain to embellish them with Figures, and therein to use the Sun, Moon and Stars; Ornaments of Discourse, which may please them in other things: This Prince thinks that the longer an Ambaffador speaks the first time, the less he honours him. And indeed when the Ambassador is only a Messenger, which delivers a Letter, it is natural that he has nothing to say which is not asked him. After the King has fooken to the Ambaffador, he gives him Arek and Betel, and a Veft, with which the Ambaffador cloaths himself immediately, and sometimes a Sabre, and a Chain, of Gold.

This Prince gave Sabres, Chains of Gold and Vests, or sometimes only Vests To Foreign-This Prince gave Sabres, Chains of Gold and Vers, or following only Vers or ers which are to the principal French Officers, but gave them Audience only as it were by ac- ers which are not Ambaffacident in his Gardens, or out of his Palace at some Show.

In all forts of Busines, the Indians are flow in concluding, by reason of the Audience only length of their Councils, for they never depart from their Customs. They are by accident very phlegmatic and hypocritical. They are infinuating in their Speeches, are couning captious in their Writings, deceiful, to such a degree as to Cheat. The praise and deceiful which the King of Siam's Wives and Concubines give him, when they would in their New York and the such as the large of the such as the s flatter him to the highest degree, was to tell him, not that he was an Hero, or gotiations. the greatest General in the World, but that he had always been more politic and witry, than all the Princes with whom he had to do. They engage themfelves in writing as little as they can. They will rather receive you into a Port,  $\mathbf{F}$  f

or into a Castle, than they will agree with you to surrender them up to you by a Treaty in ample Form, and fealed by their Barcalon.

arrogance.

The Portugueses being naturally bold and distrustful, have always treated the roseans have Indians with a great deal of Loftiness, and with very little Confidence: And the Dutch have thought they could not do better, than herein to imitate the treat the In. Portugueses; because that indeed the Indians being educated in a Spirit of Sertreat the In. dim with vitude, are crafty, and, as I have faid in another place, fubservient to those who treat them haughtily, and infolent to those that use them gently. The King of Siam says of his Subjects, that they are of the temper of Apes, who tremble so long as one holds the end of their Band, and who difown their Mafter, when the Bandis boiled. Examples are not rare in India of simple European Factors, who have bathinger'd the Officers of the Indian Kings without being punished. And it is evident, that the certain vigorous Repartees which are sometimes made in our Countries, appear to us more daring, than the Bastinado is in theirs; provided it be given them in cold Blood, and not in Anger: A Man that suffers himself to be transported with Passion, is what the Indians most contemn.

But as Trade is their most sensible Interest, Presents are essential for them in Embassies. 'Tis a trafficking under an honourable Title, and from King to King. Their Politeness excites them to testify by several Demonstrations, how they esteem the Presents which they have received. If it is any thing of use, tho it be not for their use, they publickly prepare whatever shall be necessary to use it, as if they had a real desire thereof. If it is any thing to wear, they will adorn as if they had a real defire thereot. It it is any thing to wear, they will adort themselves therewith in your presence. If they are Horses, they will build a Stable on purpose to lodge them. Was it only a Telescope, they would build a Tower to see with this Glass. And so they will seem to make an high account of all forts of Presents, to honour the Prince which sends them, unless he has received Presents from their part with less demonstrations of Esteem. Nevertheless they are really concerned only for the Profit. Before that the King's Presents went out of our hands, some of the King of Simm's Officers. came to take an exact description thereof in writing, even to the counting all the Stones of every fort which were interspers'd in the Embroideries; and to the end that it might not feem that the King their Master took this care to prevent being robbed by his Officers, through whose hands the Presents were to pass, they pretended that this Prince was curious and impatient, and that it was necessary to go render him an account of what this was, and to be ready to anfiver him exactly upon the least things.

The Orientals All the Oriental Princes do esteem it a great Honour to receive Embassies, do effect it a and to fend the fewest they can: Because that, in their Opinion, it is a Badge great Honour which cannot be alien'd from them and their Riches, and that they can content to receive Embedies as themselves without the Riches of Foreigners. They look upon Embassies as kind of Homage; and in their Courts they retain the Foreign Ministers as long as it is possible, to prolong, as much as in them lies, the Honour which they receive. Thus the great Mogul, and the Kings of China and Japan, do never fend Amaffadors. The King of Persu likewife sends only to Siam, because that the King of Siam's Ambassador had demanded it, as I proceed to relate.

The Siamele Ambassadors are accountable, because that they are loaded with Goods; and it rarely happens, that they render an Account good enough entirely to avoid the Bastinado. Thus Agi Selim ('tis the name of a Moor, whom the King of Siam sent eight or nine years fince into Perfia, as his Ambassador) was severely chastised at his return, tho' in appearance he had served very faithfully. He had established Commerce with Persia, and had brought with him that Persian Ambassador, who, as I have several times related, dyed at Tenasserim. He was a Moulu, or Doctor of the Law of Mahomet, whom Agi Selim had demanded of the King of Persia, to instruct, as he pretended, the King of Siam in Mahumetanilin. Bernier Tome II. pag. 54. reports that during his abode in the Indies, some Ambassadors from Presser John, who, as every one knows, professes to be a Christian, demanded of the great Mogul an Alcoran, and eight of the most renowned Books that were in the Mahametan Religion; a bale Flattery, which exceedingly fcandalized Bernier. But generally speaking, these trading Kings do exceedingly make use of the pretence of Religion, for the increase of their Commerce.

### Explication of the Platform of the Hall of Audience of Siam.

A Three Steps which are placed under the Window, where the King of Siam was, to raise me high enough to deliver him the King's Letter from hand to hand.

B Three Parafols or Umbrella's.

Part III.

C Two pair of Stairs to go up into the place where the King of Siam was.

D Two Tables covered with Tapestry, on which were laid the King's Present, which could

E The Son of Mr. Ceberet standing, holding the King's Letter in a Gold Bason of Filigreen with a triple Story, the Figure of which is seen at Page

F Two little square and low Stools, each covered with a little Carpet, for the King's Envoss to sit on. Monsieur de Chaumont had such another.

G The Bishop of Metellopolis, Apostolick Vicar, sitting cross-legg d.

H Monsieur Constance proferate at my right hand, and behind me to serve as my Inter-

I Father Tachart sitting cross-legg'd.

K Fifty Mandarins proftrate.

L The French Gentlemen sitting with their Legs across.

M Alittle pair of Brick Stairs to go up to the Hall of Andience.

N The Wall whereunto this pair of Stairs is fixed.

### The Explication of the Platform of the Temple, which should have been inserted in Chap. 2. Part 2.

A The Steps before the Gates of the Temple.

B The principal Gate.

C The two Gates behind.

D The Piles of Wood which bear the Roof.

E The Piles of Wood which bear before and behind the Temple.

G The Figure of Sommona-Codam taking up the all the forepart of the Altar.

HH The Statues of Pra Mogla, and of Pra Sarabout, less and lower than the first.

III Other Stautes leffer than the former.

K. Steps to ascend on the Altar, which is a Mass built with Bricks about 4 Foot high.

CHAP.

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## CHAP. XVI.

Of the Foreigners of different Nations fled to, and setled at Siam

The Policy

TWas, as I have faid, the Liberty of Commerce, which had formerly invi-L ted to Siam a great multitude of Strangers of different Nations, who feerespect of the strangers fled the there with the Liberty of living according to their Customs, and of pubstrangers fled the there with the Liberty of living according to their Customs, and of pubstrangers fled the there with the Liberty of living according to their Customs, and of pubstrangers fled there with the Liberty of living according to their Customs, and of pubstrangers fled there with the Liberty of living according to their Customs, and of pubstrangers fled the customs are the contract of the customs and the customs are the customs and the customs are the customs and the customs are the customs are the customs and the customs are the cu lickly exerciting their feveral ways of Worship. Every Nation possesses a different Quarter. The Quarters which are without the City, and which do compose the Suburbs thereof, the Portugueses do call Camp, and the Siameses Ban. Moreover every Nation chooses its Chief, or its Nai, as the Siameses do speak, and this Chief manages the Affairs of his Nation with the Mandarin, whom the King of Siam nominates for this purpofe, and whom they call the Mandarin of this Nation. But Affairs of the leaft importance are not determined by this Mandarin, they are carried to the Barcalon.

Amongst the several Nations, that of the Moors has been the best established of the Moors under this Reign. It once happed that the Barcalon was a Moor, probably bevery different very different cause the King of Siam thought by this means better to establish his Commerce, at Siam, at se. cause the King of Siam thought by this means better to establish his Commerce, ac oran, at the amongst the most powerful of his Neighbouring Princes, who do all make proveral times. fession of Mahumetanism: The principal Offices of the Court, and of the Provinces were then in the hands of the Moors: The King of Siam caused several Mosques to be erected for them at his expence, and he still bears the charges of their principal Festival, which they celebrate for several days together, in memory of the Death of Haly, or of his Children. The Stameses, which embraced the Religion of the Moors, had the Priviledge of being exempted from the perfonal Service: But the Barcalon Moor foon experienced the Inconstancy of the Fortunes of Siam, he fell into Disgrace, and the Credit of those of his Nation fell afterwards into Decay. The confiderable Offices and Employments were taken away from them, and the Siameses which were turned Mahumetans, were forc'd to pay in ready Money for the fix Months Service, from which they had been exempted. Nevertheless their Mosques are remaining to them, as well as the publick Protection which the King of Siam gives to their Religion, as to all foreign Religions. There are therefore three or four Thouland Moors at Siam, as many Portugueses born in India, and as many Chineses, and perhaps as many Malays, besides what there is of other Nations.

The Foreign But the richest Foreigners, and especially the Moors, are retired essewhere, fince the King of Siam has reserved to himself alone almost all the foreign has caused the Commerce. The King his Father had heretofore done the same thing, and nas caused the Richell Stram Perhaps it is the Policy of Stam to do it thus from time to time; otherwise it is gers, and espe-certain that they have almost always left the Trade free, and that it has frecially the quently flourished at Siam. Ferdinand Mendez Pinto reports, that in his time flourished at Siam. Ferdinand Mendez Pinto reports, that in his time flourished at Siam. Ferdinand Mendez Pinto reports, that in his time flourished at Siam. Ferdinand Mendez Pinto reports, that in his time flourished at Siam. Ferdinand Mendez Pinto reports, that in his time flourished at Siam.

Why the Fo-Why the For-Commerce requires a certain liberty: no perfon can refolve to go to Siam, reign Trade cased at Siam, necessarily to fell unto the King what is carry d thither, and to buy of him alone cased at Siam, necessarily what one would carry thence, when this was not the product of the Kingdom. For though there were leveral foreign Ships together at Siam, the Trade was not permitted from one Ship to the other, nor with the Inhabitants of the Country, Natives or Foreigners, till that the King, under the pretence of a preference due to his Royal dignity, had purchased what was best in the Ships, and at his own rate, to fell it afterwards as he pleafed: because that when the feason for the departure of the Ships presses on, the Merchants choose rather to fell to great lofs, and dearly to buy a new Cargo, than to wait at Siam a new featon to depart, without hopes of making a better Trade.

In



In a word, 'tis neither the natural Riches, nor the Manufactures of the King. The Natural-dom of Siam, that should tempt one to go thither. The natural Siameses, ruin'd afford a great they are by impositions and services, cannot carry on a great Trade, though Trade, though Trade, though Trade, though Trade, though Great they should have all the liberty imaginable. The Trade is manag'd only with the special found Money necessary for life. The vast summer very great, there is scarcely sound Money necessary for life. The vast summer levied on the people returns flowly to the people, and especially in the remote Provinces and the whole does not return, because that a great part thereof remains in the hands of those, that tend upon the receipts and expences of the Prince. And as to that part which returns to the people, it remains not in their hands for their uses, it soon goes thence to return to the Princes Cosses: so that it must needs be, that all the small Trades do cease for want of Money; which cannot be, but the general Commerce of a State does greatly suffer. But this is yet much truer at Siam, where the Prince annually accumulates his Revenues, instead of expending them. Having thus explained what respects the King, the Officers, and the People of Siam, it remains to speak of their Talapoins, or Priests.

### C H A P. XVII.

## Of the Talapoins, and their Convents.

They live in Convents, which the Siameses do call Vat; and they make use The origine of for the Temples, which the Siameses do call Piban, and the Portugueses Pagade, the word Pafrom the Persian word Pangheda, which signifies a Temple of Idols; but the god. Portugueses do use the word Pagade, to signify equally the Idol and the Temple.

The Temple and the Convent do take up a very great square piece of ground, A Description encompast with an Inclosure of Bambou. In the middle of the ground stands the of the Conventenple, as in the place esteemed the most honourable in their Encampments; vents of the and at the corners of this ground, and along the Bambou Inclosure, are ranged the Cells of the Talapoins, like the Tents of an Army 3 and sometimes the Rows thereof are double, or triple: These Cells are little single Houses, erected on Piles, and that of the Superior is after the same manner, but a little larger and higher than the rest. The Pyramids stand near and quite round the Temple: and the ground which the Temple and the Pyramids take up, besides its being higher, is inclosed between sour Walls: but from these Walls to the Cells there likewise remains a great void piece of Ground, which is as it were the Court of the Convent. Sometimes these Walls are all bare, and serve only as an Inclosure to the ground, which the Temple and the Pyramids take up: Sometimes along these Walls there are covered Galleries of the Figure of those, which in our Religious Houses we call the Cloyster; and on a counterwall breast high, which runs along these Galleries; they place in a Train, and close together, a great number of Idols sometimes gilded.

together, a great number of noon fortenine spineed.

Though at Siam there are fome Talapoinesser, or Women, who in most things They have do observe the Rule of the Talapoins, yet they have no other Convents than those Cells for the of the Talapoins themselves: The Siameses do think that the advanced Age of all Talapoinsses these Women, for there are none young, is a sufficient caution of their Chastity. There are not Talapoinssesses in all the Convents: but in those where any are, their Cells run along one of the sides of the Bambou Inclosure, which I have mentioned, without being otherwise separated from those of the Talapoins.

The Nens, or Talapoin Children. are dispersed one, two, or three into every How the Talapoins Cell, and they serve the Talapoin with whom they lodge, that is to say vin Children with whom they have been placed by their Parents: So that when a Talapoin are lodged, has two or three Nens, he receives no more. In a word, these Nens are not all young; some there are which do grow old in this Condition, which is not thought entirely religious, and the eldest of all they call Taten. It belongs to

Part III.

The Steeple.

Of the San-

him to pluck up the Weeds which grow in the ground of the Convent, which

the Talapoins themselves cannot do, in their opinion, without fin.

The School of the None is a Hall of Bambou standing alone; and besides this Hall, there is always such another, where the People carry their Alms on the days when the Temple is shut, and where the Talapoins affemble for their ordinary Conferences.

The Steeple is a Wooden Tower standing also alone, they call it Horacang, or the Belfry; but the Bell has no Clapper. They strike it with a Mallet or Wooden Hammerto sound it: and it is only in War, or for things of War, that they strike their Basons, and other Instruments of Brass or Copper, with Iron Hammers.

Of the Super-Every Convent is under the Conduct of a Superior called Tehant-Vat, that is to fay, Lord or Mafter of the Convent; but all the Superiors are not of equal dignity: The most honorable are those which they call Samerat, and the Samerat of the Convent of the Palace is the most reverend of all. Yet no Superior, nor no Samerat, has Authority or Jurisdiction over another. This body would be too formidable if it had but one head, and if it acted always unanimously, and according to the same Maxims.

The Missionaries have compared the Sancrats to our Bishops, and the simple Superiors to our Curates; and they have some inclination to believe that this Country has formerly had some Christian Bishops, to whom the Sancrats have fucceeded. None but the Sancrats indeed can make Talapoins, as none but Bishops can make Priests. But otherwise the Sancrats have not any Jurisdiction nor any Authority, neither over the People, nor over the Talapoins, which are not of their Convent; and they could not inform me whether they have any particular Character which makes them Sancrats, fave that they are Superiors of certain Convents designed for Sancrats. Every Convent therefore design'd for a Sancrat is distinguished from the other Convents, wherein there are only fimple Superiors, by some Stones planted round the Temple, and near its Walls, each of which is double, and bears some resemblance, but at a very great diffrance, with a Mitre set upon a Pedestal. I have inserted the Figure thereof in the Print of a Temple. Their Name in Siamese is Sema. Now 'tis this refemblance of these Stones with the Mitres, that is the principal Foundation of the Suspicion, which the Missionaries have, that the Sancrats have succeeded fome Bishops. The more of these Stones there is round a Temple, the more the Sancrat is thought advanced in Dignity; but there never is fewer than two, nor more than eight. The Ignorance under which the Stamefer are, as to what these Stones do fignifie, has put the Missionaries upon seeking the Origine thereof in Christianity.

The honors of the Samerats.

The King of Siam gives to the principal Sancrats a Name, an Umbrella, a Sethe Samerats.

The King of Siam gives to the principal Sancrats a Name, an Umbrella, a Sethe Samerats.

dan, and fome men to carry it; but the Sancrats do make use of this Equipage only to wait upon the King, and they never are Talapoins that carry the Sedan.

The Spirit of The Spirit of the Institution of the Talapoins, is, to keep themselves from the this Institution Sins of the People, to lead a penitent Life for the Sins of those that bestow Alms upon them, and to live on Alms. They eat not in common, and tho they be very hospitable to the Seculars, which have recourse to them, and even to Christians, yet it is prohibited them to share the Alms which they receive, or at least to do it presently; because that every one of them being thought to repent sufficiently, has no need to redeem his Sins by bestowing Alms on his Companion, and perhaps they would also oblige them all to the fatigue of begging: Nevertheles a Talapoin is not prohibited from ever giving any thing to his Brother, or from affisting him in a real Necessity. They have two Lodgings, one on each side of their door to receive the Passengers, who desire a bed amongst them.

There are two There are two forts of Talapoins at Siam, as in all the rest of the Indies. Some forts of Talaodo live in the Woods, and others in the Cities. And those of the Woods of point. lead, as they say, a Life which would appear intolerable, and which would doubtles be so in Countries less nor than Siam, or than the Thebais of Asypt.

All, that is to fay those of the Cities, and those of the Woods, are obliged the under pain of Fire strictly to keep Celibacy, so long as they continue in their largest Celibacy and the King of Siam, from whose Jurildiction they cannot with draw themselves, pardons them not in this point: for as they have great Privilledges, and amongst other things are exempted from the fix Months Service, it imports him that the Profession of Tulapoin become not altogether convenient, for fear left all his Subjects embrace it.

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To diminish the number of these priviledged Persons, he causes them to be And to a cerfrom time to time examined as to their Knowledge, which respects the Balle tain degree of Language and its Books: and when we arrived in this Country, he had just reduced several Thousands to the Secular condition, because they had not been ing expelled found learned enough. Their Examiner was October Sourceae, a young man out of the Confabout Twenty eight or Thirty years old, the Son of that October Pra Pipitcharat. Vent. cha, who, as I have said, commands the Elephants; but the Talapoin of the Woods had resulted to submit to the Examination of a Secular, and consented to be examined only by one of their Superiors.

They educate the Youth, as Ihave related; and they explain their Doctrine They Educate to the People, according as it is written in their Balie Books. They preach the her of the Advent day after every new and every full Moon, and the People are ever very confunction that in the Temples. When the Channel of the River is full of Rain-water, until the Inundation begins to fink, they preach every day, from fix in the Morning till Dinner-time, and from one in the Afternoon till five in the Evening. The Preacher is feated croß-leg'd in a high Chair of State, and feveral Talapoint release one another in this Office.

The People approves the Doctrine which is preach'd to them in these Balle This Trade is words, so ton sa, which signifies, it is so sir, or in other Siamese words which sainful, amount to the same sense; and then they give Alms to the Preacher: and those that do preach frequently, not only at this time, but during the whole course of

the year, do easily become rich.

Now it is this time which the Europeans have called the Lent of the Talapoins. Of the Lent of Their Fasting is to eat nothing from Noon, unless they may chew Betel: but a trait of their when they do not fast, they only eat Fruit in the Asternoon. The Indians are not free them they do not fast, they only eat Fruit in the Asternoon. The Indians are not in cally in fast-naturally to sober, that a Fast of Forty, nay of an Hundred days, appears not in recedible to them Twist, a Datch Author, in his Description of the Indians reports, that Experience has certainly evinced that there are some Indians that can fast Twenty, Thirty, and Forty days, without taking any thing but a little Liquor mixed with some bitter Wood reduced to Powder. The Siamsses have cited the example of a Talapoin, whom they pretend to have fasted an hundred and seven days, without eating any thing But when I sounded their opinion thereon, I sound that they attributed this Fast to Magick, and to prove it to mesthey added, that it was easile to live on the Grass of the Fields; provided they breathed thereon, and utter'd certain words, which they understood not, or which they would not in-

form me, or which they faid that others understood.

After the Rice-Harvest the Talapains do go for three Weeks to watch in the Market of Nights in the middle of the Fields, under small Huts of branches of Leaves the Fields, under small Huts of branches of Leaves the Talapains do in the Market of the Signest in the Temple, and to sleep in and the Letheir Cells. The Hut of the Superior stands in the middle of the others, and steem which higher. They make no Fire in the Night to Gare away the wild Beasts, as all the People those that travel in the Woods of this Country usd to do, and as was done makes thereof round the Talapains are not devoured; and I know not what precaution they use, except that of enclosing themselves in a Park of Bambon. But doubtless they chose places little exposed, remote from the Woods, and where the saless they chose places little exposed, remote from the Woods, and where the saless they chose places little exposed, remote from the Woods, and where the saless they chose places little exposed.

lefs they chole places little exposed, remote from the Voots, when deal of vage Beafts cannot come with Hunger, but after having found a great deal of Food, for it is the feafon wherein there is plenty of Forage on the ground. The People admire alfo the fecturity, in which the Tahapains of the Woods do live: For they have neither Convent nor Temple to retire into. They think that the Tygers, Elephants, and Rhinoceros do respect them, and lick their hands and feet, when they find any one afleep: but these may make a Fire of Bambus 3 to 100.

to defend themselves from these Animals, they may lie in the closest Thickets; and moreover, though the people should find the remains of some man devoured, it would never be prefumed he was a Talapoin; and when they could not doubt thereof, they would prefume that this Talapoin had been wicked, and would not cease to believe that the Beasts respect the good. And it must needs be that the Woods are not so dangerous as they report, seeing that so many Families do feek Sanctuary there against the Government.

The Talaboins have a Chap-

I know not what the Talapoins do pretend, either by this Watch, or by their Lent; I ignore also what the Chaplets of one Hundred and eight Grains, on which they recite certain Balie words, do mean.

Their Habit. They go with naked feet and bare-headed, like the rest of the People : round their Reins and Thighs they wear the Pagne of the Seculars, but of yellow Linnen, which is the colour of their Kings, and of the Kings of China: and they nen, which is the colour of their Kings, and of the Kings of China: and they have no Mullin Shirt, nor any Vest. Their Habit confists of four pieces. The first which they call Angla, is a kind of Shoulder Belt of yellow Linnen, five or fix Inches broad; they wear it on their left Shoulder, and button it with a fingle button on the right Hip; and it descends not lower than the Hip. Over this Belt they put another great yellow cloath, which is called the Pagne of the Talapoin, and which they call Pa Schivon, or the Cloth of feveral pieces, because it ought to be patched in feveral places. 'T is a kind of Scapulary, which reaches down to the ground behind and before; and which covering only the left Shoulder returns to the right Hip, and leaves the two Arms and all the right Shoulder free. Over the Pa School is the Pa Pat. Tis another cloth four or five Inches broad which they do likewife put over the left Shoulder, but like a Hood; it descends to the Navel before, and as much behind as before. Its colour is sometimes red: the Sancrats and the most ancient Talapoins do wear it thus, but the Angla and the Pa Schivon can never be other than yellow. To keep the Pa Pat and the Pa Schivon in a posture, they girt the middle of their bedy with a Scarf of yellow Cloth which they call Rappacod, and which is the fourth and last piece of their Habit.

When they go a begging they carry an Iron Bason, to receive what is given little Iron-Ba them; and they carry it in a Linnen Bag, which hangs on the left fide, by two

ends of a Rope hung like a Belt over the right Shoulder. fon for bcg-

They shave all their Beard, Head, and Eyebrows; and to defend themselves the Head, and from the Sun they have the Talapar, which is their little Umbrella, in form of a have a Screen, as I have already faid in the other part. The Superior is forced to shave in their hand, himself, because no person can touch his head, without showing him diffrespect. By the same reason a young Talapoin dares not to shave an old one: but it is lawful for the old to shave the young, I mean those Children whose Education is committed to them, and who know not how to shave themselves. Nevertheless when the Superior is very old, it is necessary that he permit another to shave him; and this other does it after having defired an express Permission. In a word, the Razors of Siam are of Copper.

The days on

The days on which they shave themselves, are those of the new and full Moon; and on these days the Talapoins and the People do fast, that is to say, they inave them-felves, are days eat nothing from Noon. The People abstain also on these days from going a of Devotion Fishing, not that Fishing is a work, for they abstain not from any other Labor, to the People but because that, in my opinion, they esteem not Fishing wholly innocent, as we shall see in the sequel. And in fine, the People on these days do carry unto the Convents some Alms, which consist in Money, Fruits, Pagnes, or Cattle. If the Cattle are dead, the Talapoins do eat them: if they are alive, they let them live and die about the Temple; and they eat them only when they die of themselves. Near certain Temples there is also a Pond for the living Fish, which is offer'd to the Temple: and besides these Festival days, common to all the Temples, every Temple has a particular one appointed to receive the Alms,

love to adorn as if it was the Feaft of its Dedication: for I could not learn what it is, themselves to The People voluntarily affift at these Festivals, and make a show with their go to the new Cloaths. One of their greatest Charities is to give Liberty to some Ani-1 emptes: and mals, which they buy of those that have taken them in the Fields. What they to Animals.

give to the Idol, they offer not immediately to the Idol, but to the Talapoins 3 and they present it to the Idol, either by holding it in their hand before the Idol, or by laying it upon the Altar; and in a little time after they take it away, and convert it to their own uses. Sometimes the People offer up lighted Tapers, which the Talapoins do fasten to the knees of the Statue, and this is the reason why one of the knees of a great many Idols is ungilt. As for bloody Sacrifices, they never offer up any, on the contrary they are prohibited from killing

Part III. of the Kingdom of SIAM.

At the Full Moon of the fifth Month, the Talapoins do wash the Idol with The Stameles perfumed waters, but respect permits them not to wash its head. They after-do wash their wards wash the Sancrat. And the People go also to wash the Sancrats, and the Idols, their other Talepoins: And then in particular Families the Children do wash their their Parents, Parents, without having regard to the Sex; for the Son and the Daughter do equally wash the Father and the Mother, the Grandfather and the Grandinother. This Custom is observed also in the Country of Laos, with this Singu-

larity, that the King himfelf is washed in the River-The Talapoins have no Clock; and they wash themselves only when it is The hour on light enough to be able to difcern the veins of their hands, for fear left if they which the 74should wash themselves earlier in the morning, they should in walking kill any wash them-Infect without perceiving it. This is the reason why they wash later in the selves. shortest days, tho' their Bell fails not to wake them before day.

Being raised, they go with their Superior to the Temple for two hours. There They go to Being raties, they go with their superior to the Feingle to two hours, first they fing or repeat out of the Balle, and what they fing is written on the Leafs the Temples of a Tree somewhat longish, and fasten'd at one of the ends, as I have faid in fine. difcourfing of the Tree which bears them. The People have not any Prayer-Book. The posture of the Talapoins, whilst they sing, is to sit cross-legid, and continually to tofs their Talipat or Fan, as if they would continually fan themfelves: fo that their Fan goes or comes at each Syllable which they pronounce, and they pronounce them all at equal times, and after the same tone. In entering in and going out of the Temple, they profrate themselves three times before the Statue, and the Seculars do observe the same; but the one and the other do remain in the Temple sitting cross-leg'd, and not always pro-

In going from Prayer, the Talapoins go into the City to beg Alms for an hour; Then to beg. but they never go out of the Convent, and never re-enter, without going to ging, on which falute their Superior, before whom they proftrated themselves to touch the alone they do ground with their Forehead; and because that the Superior sits generally cross live. leg'd, they take one of his Feet with both their hands, and put it on their head. To crave Alms they fland at the Gates, without faying any thing; and they pass on after a little time, if nothing is given them. It is rare that the People fends them away without giving them, and befides this their Parents never fail them. The Convents have likewife fome Gardens, and cultivated Lands, and Slaves to plough them. All their Lands are free from Taxes, and the Prince touches them not; altho' he has the real property thereof, if he divelts not himfelf by writing, which he almost never does.

At their return from begging, the Talapoins do breakfast if they will, and are How they fill not always regular in prefenting to the Idol what they eat, tho' they do it some-up the day. times after the manner that I have related. Till Dinner-time they study, or employ themselves as to them seems meet, and at Noon they dine. After Dinner they read a Lecture to the little Talapoins, and fleep; and at the declining of the day they sweep the Temple, and do there sing as in the morning for two hours, after which they lie down. If they eat in the evening, it is only Fruit; and the their day's work feems full by what I have faid, they cease not to

walk in the City after Dinner for their pleasure.

Besides the Slaves which the Convents may have, they have each one or two The secular Servants which they call Tapacaou, and which are really Seculars, tho they be the Talapoints. habited like the Talapoins, excepting that their Habit is white, and not yellow. They receive the money which is given to the Talapoins, because the Talapoins

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cannot touch it without finning: they have the care of the Gardens and Lands, which the Convent may have, and in a word they act in the Convents for the Talapoins, whatever the Talapoins conceive cannot be done by themselves, as we shall see in the Sequel.

### C H A P. XVIII.

Of the Election of the Superior, and of the Reception of the Talapoins and Talapoinesses.

The Election W Hen the Superior is dead, be he Sancrat or not, the Convent elects anoof the Superior and ordinarily it chuses the oldest Talatonia of the House or as ther, and ordinarily it chuses the oldest Talapoin of the House, or at least the most learned.

How a Secu- If a particular person builds a Temple, he agrees with some old Talapoin at lar does, who his own choice to be the Superior of the Convent, which is built round this builds a Tem Temple, as other Talapoins come thicher to inhabit; for he builds no Talapoins pleand begins

ple, and begins Lodging before-hand.

How a Talapoin is admit-

If any one would make himself a *Talapoin*, he begins with agreeing with some Superior that would receive him into his Convent; and because there is none but a Sancrat, as I have faid, can give him the Habit, he goes to demand it of some Sancrat, if the Superior with whom he would remain, is not himfelf a Sancrat; and the Sancrat appoints him an hour some few days after, and for the Afternoon. Whoever should oppose him would fin ; and as this Profession is gainful, and it lasts not necessarily the whole life, the Parents are always very glad to fee their Children embrace it. I have not heard what Mr. Gervaise reports, that it is needful to have a permission in writing from Oc-ya Pra Sedet, to be received a Talapoin. I fee not likewife how this could be practicable in the whole extent of the Kingdom; and they have always affured me, that it is free for every one to make himself a Talapoin, and that if any one did oppose the reception of another into this Profession, he would fin-When any one therefore is to be admitted, his Parents and his Friends accompany him to this Ceremony with Instruments and Dancers, and they stop frepany than to this Ceremony with instantaneous and Dancers, and they flop requently by the way to fee dancing. During the Ceremony, the Demandant, and the Men that are of his Retinue, do enter into the Temple where the Sancras is; but the Women, the Instruments, and the Dancers enter not therein. I know not who shaves the Head, the Eye-brows and the Beard of the Demandant, or whether he shaves it not himself. The Sancras gives the Habit with himself and he deals himself. with his own hand, and he cloaths himself therewith, letting the secular Habit fall underneath when he has put on the other. Mean while the Sancrat pronounces several Balie words; and when the Ceremony is ended, the new Talapoin goes to the Convent, where he must remain, and his Parents and Friends accompany him thither: But from this time he must no more hear any Instrument, nor behold any Dance. Some days after the Parents do give an Entertainment to the Convent, and they exhibit a great many Shows before the Temple, which the Talapoins are prohibited to fee.

Whether ral degrees of Talapoins.

Mr. Gervaise distinguishes the Talapoins into Balonang, Tchaon-cou and Pecon. there are feve. As for me, I have always heard fay that Balouang, which the Siamefes do write Pat-lonang, is only a Title of Respect. The Siameses gave it to the Jesuits, as we do give them the Title of Reverence. In this Country I never heard speak of the word Picon, but only of Tchaon con, which I shall explain in the Sequel, and which some have informed me to be the Siamese word which signifies Talapoin. So that they say, He is a Tchaou-con, and I would be Tchaou-con, to signifie he is a Talapoin, and I would be a Talapoin. Nevertheless as there may be some difference between the Sancrats and Talapoins, which the perfons whom I confulted, knew not, tho' otherwise expert, it may well be that there is some likewife between the Talapoins themselves, some of which might be Pat-louang, and others Picon, and that the general name of all might be Tchaon-con; I refer my felf to Mr. Gervaise.

The Talapoinesses do call themselves Nang Tehii: They are clad in white, like Of the Talathe Tapacaou, and are not esteemed altogether Religious. A simple Superior suf-points feet ficeth to give them the Habit, as well as to the Nens: And altho' they cannot have any carnal Commerce with Men, yet are they not burnt upon this account, as the Talapoins are, which are surprized in a Fault with the Women. They deliver them up to their Parents to bastinado them, because that neither the Talapoins nor the Talapoinesses can strike any person.

#### CHAP. XIX.

# Concerning the Doctrine of the Talapoins.

A LL the Indies are full of Talapoins, tho' they have not everywhere this Divers kinds Name, and live not everywhere after the same manner. Some marry, and of Talapoins in others strictly observe Celibacy. Some eat Meat, provided it is given them stain, others never eat any. Some do kill Animals, others kill none at all; and others do kill very rarely, and for some Sacrifice. Their Doctrine appears not more exactly the fame in all places, tho' the Foundation thereof be always the opinion of the Metempsychosis; and their Worship is also various, tho' it always

refers to the dead.

Part III.

reters to the dead.

It feems that they believe all Nature animated, not only Men, Beasts and How they Plants, but the Heaven, the Planets, the Earth, and the other Elements, the whole animated. Rivers, the Mountains, the Cities, the Houses themselves. And moreover, as ted Nature, all Souls appear to them of the same Nature, and indifferent to enter into all and what Idea all sours appear to them of the latter state, and institute when the ldea of the they have of Bodies, of what kind foever they be, it feems that they have not the ldea of the Animation as we have. They believe that the Soul is in the Body, and that the Animation as we have. it rules the Body, but it appears not that they believe like us, that the Soul is physically united to the Body, to make one with it. So far are they from thinking that the natural Inclinations of Souls is to be in Bodies, that they believe it is a Penance for them, to extirpate their Sins by their Sufferings, because that indeed there is no kind of Life which has not its Troubles. The supreme Felicity of the Soul, in their opinion, is not to be obliged to animate any Body, but to remain eternally in repose. And the true Hell of the Soul is on the contrary, according to them, the perpetual necessity of animating Bodies, and of pasfing from one to another by continual Transmigrations. Tis said, that amongst the Talapoins, there are some which boldly affert, that they remember their past Transmigrations; and these Testimonies do doubtless suffice to confirm the People in the Opinion of the Metempsychosis. The Europeans have sometimes translated by the word Tutelar Genius, the Souls which the Indians give to the Bodies, which we esteem inanimate: But these Genii are certainly in the Opinion of the Indians only real Souls, which they suppose equally to animate all the Bodies wherein they are present, but after a manner which corresponds not to the Physical Union of our Schools.

The Figure of the World, according to their Doctrine, is eternal; but the What they World which we fee is not, for whatever we fee therein, lives in their Opinion, think of the and must die; and at the fame time there will foring up other Beings of the fame the World. kind, another Heaven, another Earth, and other Stars; and this is the ground of what they fay, that they have feen Nature decay and revive again feveral

No Opinion has been to generally received amongst Men, as that of the Im-Of the nature mortality of the Soul; but that the Soul is immaterial, is a Truth the knowledg of the Soul acof which is not fo much propagated: Thus is it a very great difficulty to give cording to

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unto a Siamese the Idea of a pure Spirit; and this is the Testimony which the Missionaries give thereof, that have been longest amongst them. All the Pagans of the East do believe indeed that there remains something of Man after his death, which subsitts separately and independently from its body; but they give extent and figure to what ramains, and in a word they attribute unto it all the fame Members, and all the fame folid and liquid Substances whereof our Bodies are composed. They suppose only that the Souls are of a matter subtile enough, to be free from touch and fight; tho' they believe that if any one be wounded, the blood which flows from its wound, may appear. Such were the Manes and Shades of the Greeks and Romans, and it is by this figure of the Souls like unto that of the Bodies, that Virgil supposes that Anew knew Palinurus, Dido, and Anchifes in Hell.

The Abfurdity of their Opinion.

Now what is altogether impertinent in this Opinion, is, that the Orientals cannot tell why they attribute the humane Figure, rather than any other, to the Soul, which they suppose able to animate all forts of Bodies, besides the humane Body. When the Tartar which now reigns at China, would force the Chinefes to shave their hair after the Tartarian sashion, several of them chose rather to fuffer death, than to go, they faid, into the other World, to appear before their Ancestors without hair; imagining, that they shaved the head of the Soul, by shaving that of the Body.

Of the Puafter death.

The Souls therefore, tho' material, are yet imperishable in their Opinion; and nilhments and at their departure out of this life, they are punished or recompenced, with Pu-Recompeners niflments or Pleafures proportioned in greatness and duration to their good or of the Soul evil works, until they re-enter into the humane Body, wherein they must enjoy evil works, until they re-enter into the humane Body, wherein they must enjoy a Life more or lefs happy, according to the Good or Evil they have committed in a former Life.

How they ex- If a Man is unfortunate before he has done amis, as if he is dead-born, the plain the Pro- Indians believe that he has merited it in a former Life, and that then perhaps he figurity of the canfed some Great-belly'd Woman to miscarry. If, on the contrary, they ob-wicked, and free a wicked Man to prosper, they believe that he enjoys the Recompence the bissor. the Misjortunes of the
Good.

Which he has merited in another Life by good Actions. If the Life of the Man
is mix with Profperity and Adverfity, its because every Man, they say, has done
Good and Evil when he formerly lived. In a word, no Person suffers any Misfortune, according to their Opinion, if he has always been innocent; nor is he always happy, if he has at any time been culpable; nor does he enjoy any Prosperity, which he has not merited by some good Action.

Of the feveral Belides the divers manners of being of this World, as of Plant, or of Aniplacs where mal, to which the Souls are fucceffively linked after death, they reckon feveral the Soul paffes places out of this World, where the Souls are punished or rewarded. Some are more happy, and others more miferable than the World wherein we are. They make all these places as Stages in the whole extent of Nature, and their Books do vary in the number; they the most common Opinion is, that there are nine happy, and as many unhappy. The nine happy places are over our heads, the nine unhappy are under our feet; and the higher a place is, the happier it is; as all othe lower it is, the more unhappy it is: so that the happy extend far above the Stars, as the unhappy do fink a great way beneath the earth. The Siamefer do call the Inhabitants of the superior Worlds Thenada, those of the inferior Worlds Pii, and those of this World Manout. The Portugueses have translated the word Thenada by that of Angels, and the word Pii by that of Devils; and they have given the Name of Paradice to the superior Worlds, and that of Hell

vives again.

But the Siameles do not believe that the Souls in departing out of the Body do pass into these places, as the Greeks and Romans thought that they went into Hell: they are born, according to them, at the places where they go; and there they do live a life, which from us is conceal'd, but which is subject to the infirmities of this, and unto death. Death and a new Birth are always the road from one of these places to another, and it is not till after having lived in a certain number of places, and during a certain time, which ordinarily extends to fome thousands of years, that the Souls there punished or recompenced, do happen to spring up again in the World wherein we are.

Now as they suppose that the Souls have a new habitation in the places To live a life where they revive, they think they fland in need of the things of this Life 3 and fall of Cares all the ancient Paganism believed the same. With the body of a dead man, the Gamb burnt the things which he had most eftermed, during his Life, Moveables, Animals, Slaves, and even free Persons, if he had any singularly devoted

They still practice worse than this, if it is possible, among the Pagans of the Why the Inditrue trains, where the Wife glories in burning herfelf alive with the body of an women her Husband, to meet his Soul in the other world. I well know that fome felrs with the presume that this Custom was formerly introduced in the Indies, to secure the body of their Husbands from the Treason of their Wives, by forcing them to die with them. Husband, Mandella reports this opinion, and Strabo had reported it before him, and had disapproved it, thinking it improbable either that such a Law was established, or that such a reason for establishing it was true: Indeed, besides that this Cufrom is extended to the Moveables and Animals, things all innocent, it is free in regard of the Women, none of which dies after this manner, if she desires it not; and it has been received in too great a part of the Country, to imagine that the Crimes of the Women have given occasion thereunto. Wives to be Slaves, or as Slaves to their Husbands, are not either more diffatisfied with their Condition, nor greater Enemies to their Husbands, and they change no part of the Condition as to this regard, by a fecond Marriage. Thus it is observed that the Indian Women have always look'd upon the Liberty they have of dying with their Husbands, not as a Punishment, but as a Felicity which is offered them. The Women Slaves do sometimes follow their Mistress to the Funeral Pile, but voluntarily and without compulsion. And moreover it is not a thing without pre-cedent in the Indies, that an Husband enamour'd with his Wife, will burn himself with her, in hopes of going to enjoy another Life with her.

Manuette reports it is a Cultom of the Tartars, that when there dies one This Cultom among them, one of his Wives hangs herfelf, to follow him into the other mong the Tartars. World; but that the Tartar which reigned at China in 1668. abolished this tare, and is not Custom: and he adds, that though it be not common to the Chineses, nor ap-without examproved by Confucius, yet it is not without example. He relates one in his time, ple among the of the Vice-Roy of Canton, who being poyloned himself, and seeing the ap-Chinden proach of Death, called her whom he loved the best of his Wives, and desired her to follow him: which the did by hanging herfelf fo foon as he was dead.

But certainly neither the Chineses, nor the Tonquineses, nor the Siameses, nor The Oeconothe other Indians beyond the Ganges, have ever, as it is known, received the my of the Chi-Custom of permitting the Women to burn: and moreover they have by a wife neger and of Oeconomy established, that instead of real Furniture and Money, it should suf-bors in Burifice to burn with the dead bodies, those very things delineated in paper cut, and als. oftentimes painted or gilded: under pretence, in my opinion, that in matter of Types, those of the things in Paper were as good as those of the things them-felves, which the Paper represents. Wherefore the People report, that this Paper which is burnt, is converted in the other Life to the things which it represents. The richest Chineses cease not to burn at least some real Stuffs, and they burn moreover so much Paper, that this expence alone is considerable.

But all these Oriental People do not only believe that they may be helpful to The power of the dead, as I have already explained: they think also that the dead have the the Dead over power of tormenting and fuccouring the living: and from hence comes their the Living, the Care and Magnificence in Funerals; for it is only in this that they are magniworthin of the ficent. Hence it comes also that they pray to the dead, and especially the Ma- Dead. nes of their Ancestors to the Great-Grand-Father, or to the Great-Great-Grand-Father; prefuming that the reft are so dispersed by divers Transmigrations, that they can hear them no more. The Roman likewise prayed to their dead Ancestors, tho they believed them not to be Gods. Thus Germanica in Tacitus, at the beginning of a military expedition befought the Manes of his Father Drufus to render it happy, because that Drufus himself had made war in that Country.

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But by a prevention, which I fee diffused likewise among the Christians, They fear onthat are afraid of Spirits, the Orientals neither expect nor fear any thing from the dead of foreign Countries, but from the dead of their City, or of their Quarter, or of their Profession, or of their Family.

#### CHAP. XX.

#### Of the Burials of the Chineses and Siameses.

HE Burials of the Chineses are described in several Relations, but I shall of speaking of 1 not forbear speaking a word thereof, to render those of the Siameses more the Burials of intelligible; because that the Customs of a Country do always better illustrate themselves, by the comparison of the Customs of the neighbouring Countries.

thereof.

The first care of the Chineses in Burials is to have a Coffin of precious Wood; Principal Cir- in which they do sometimes make an expence above their Fortune : and though they bury their bodies without burning them, they forbear not, at their Interment, to burn Goods, Houses, Animals, Money, and whatever is necessary to the Conveniences of Life; but all in Paper, except some real Stuffs which are burnt at the Funerals of the rich. Father Semedo reports, that at the Burial of a Queen of China her goods were really burnt. The fecond care of the Chinefes in Burials is, to chuse out a place proper for the Tomb. They chuse it according to the advice of the Soothsayers, imagining that the repose of the deceased depends on this choice, and that of the selicity and repose of the living depends on the repose of the dead. If therefore they are not the Proprietors of the place declared by the Soothfayers, they fail not to buy it, and fometimes dearly. And in the third place, besides the Funeral Train, which is great, they give magnificent entertainments to the dead person, not only when they bury him, but annually on the same day, and several times in the year.

The worship

In their House they have a Chamber designed for the Manes of their Anof the Dead ceftors, where from time to time they go to render the same Devotions to their Figure, as they render'd to their Body in interring it. They do again burn Perfumes, Stuffs, and cut Papers; and they do make them new repalts. The Tonquinefes, according to Father de Rhodes, do intermix these forts of repasts with Paper-meats, which they burn. The same Author very largely relates the Prayers which the Tonquineses make to the dead, how they demand of them a long and happy Life; with what zeal they redouble their Worship and Prayers in their Misfortunes, when the Soothsayers affure them that they ought to attribute the cause thereof to the Anger of their Parents.

The Chineses at Several Relations of China affert, that the learned men, which in this Counprefent are entry are the most important Citizens, do consider the Ceremonies of Funerals, tirely impious only as civil Duties, to which they add no Prayers: That at present they have not any fense of Religion, and do not believe the existence of any God, nor the Immortality of the Soul; and that the they render unto Confucius an exterior Worthip in the Temples which are confecrated to him, yet they demand not of him the Knowledge, which the learned Men of Tonguin demand of him.

The Doctrine But, whether the Funerals which the learned Chineses do make for their Pa-

of the Ancient rents be without Prayers, or not; it is certain that the ancient Spirit of the Chine les on the Doctrine of the Chine les, was to believe the Immortality of the Soul, to expect worthip of the Doctrine of the Chine les, was to believe the Immortality of the Soul, to expect Dead, and good and evil from the dead, and to address some Prayers unto them, if not in that it is very Burials, at least in the disgraces of Life to attract their protection. Moreover, probable that what opinion foever they have had of the Power of the dead to fuccor the livthey never ing, it is very probable that they thought, that the dead were in need at the prayed to the ing, it is very probable that they thought, that the dead were in need at the prayed to the moment of the Burial, that is to say in the Entrance and Establishment of another Life, and that it then belonged to the living to fuccor the dead, and not to demand fuccor of them.

But it is time to relate what the Funerals of the Siameses are. So soon as a TheBurials of man is dead his body is shut up in a wooden Cossin, which is varnished and gild-the Siamesei ed on the outfide: and as the Varnish of Siam is not so good as that of China, and hinders not the stench of the dead body from passing through the cracks of the Coffin, they endeavour at least to consume the Intestines of the dead with Mercury, which they pour into his Mouth, and which, they fay, comes out at the Fundament. They fometimes make use also of Leaden Coffins, and sometimes also they gild them: but the Wood of their Coffins is not so precious as at China, because they are not so rich as the Chineses. Out of a respect they place the Coffin on some high thing, and generally on a Bedsted which hath feet, and so long as the body is kept at the house, whether to expect the Head of the Family, if he is absent, or to prepare the Funeral Solemnities, they burn Perfumes and Tapers by the Coffin; and every night the Talapoins come to fing in the Balie Language, in the Chamber where it is exposed: they do range themfelves along the Walls. They entertain them, and give them fome Money: and what they fing are some moral Subjects upon Death, with the Road to Heaven, which they pretend to show to the Soul of the deceased.

of the Kingdom of SIAM.

Mean while the Family chuses a place in the Field, there to carry and burn the How they body. This place is generally a Spot near the Temple, which the Deceased, burn the body. or some of his Ancestors had built; or near some other Temple, if there is dies. none peculiar to the Family of the deceased. This space is inclosed with a square inclosure made of Bambou, with some kind of Architecture, almost of the same work as the Arbours and Bowers of our Gardens, and adorned with those Papers Painted or Gilded, which they cut to represent the Houses. Moveables, and Domestic and Savage Animals. In the middle of this Inclosure the Pile composed entirely or partly of Odoriferous wood, as are the white or yellow Saunders, and Lignum Aloes, and this according to the Wealth and Dignity of the deceased. But the greatest honor of the Funeral confists in erecting the Pile, not in eagerly heaping up Wood, but in great Scaffolds, on which they do put Earth, and then Wood. At the Burial of the late Queen, who died feven or eight years ago, the Scaffold was higher than ever was yet feen in this Country, and a Machine was defired of the Europeans, to raise the

Coffin decently to that heighth.

Part III.

When it is refolved to carry the Corps to the Pile (which is always done in The Traid. the Morning) the Parents and Friends do carry it with the found of a great many Instruments. The Body marches first, then the Family of the deceased, Men and Women all cloathed in White, their Head covered with a White Vail, and lamenting exceedingly; and in fine, the rest of the Friends and Relations. If the Train can go all the way by water, it is so done. In very magnificent Funerals they carry great Machines of Bambou covered with painted and gilded Paper, which represents not only Palaces, Moveables, Elephants, and other common Animals, but some hideous Monsters, some of which refemble the humane Figure, and which the Christians take for the Figures of Devils. They burn not the Coffin, but they take out the body which they leave on the Pile: and the Talapoins of the Convent, near which the body is burnt, do fing for a quarter of an hour, and then retire to appear no more. Then begin the shows of the Cone and of the Raham, which are at the same time, and all the day long, but on different Theaters. The Talapoins think not that they can be present thereat without Sin; and these Shows are not exhibited at Funerals upon any religious Account, but only to render them more magnificent. To the Ceremony they add a festival Air, and yet the Relations of the deceased forbear not to make great Lamentations, and to shed many Tears, but they hire no Mourners, as some have affured me-

About Noon the Tapacaon, or Servant of the Talapoins, fets fire to the Pile, The Servant which generally burns for two hours. The Fire never confumes the body, it for the Tala which generally burns for two hours. The sire never confumes the body, it for the Talapoins lights the only roafts it, and oftentimes very ill: but it is always reputed for the Honor funeral Pile. of the deceased, that he has been wholly confumed in an eminent place, and that there remains only his Ashes. If it is the Body of a Prince of the Blood, or of a Lord whom the King has loved, the King himself sets fire to the Pile,

without flirring out of his Palace. He lets go a lighted Torch along a Rope, which is extended from one of the Windows of the Palace to the Pile. As to the cut Papers, which are naturally defigned for the Flames, the Talapoins do frequently secure them, and seize them to lend them to other Funerals; and the Family of the deceased permits them to do it. In which it appears that they have forgot the reason, why the neighbouring Nations dispence not from burning fuch Papers effectually: and in general it may be afferted, that there are no Persons in the world, which do ignore their own Religion so much as the Talapoins. It is very difficult, fay fome, to find any one amongst them that knows any thing. It is necessary to feek their Opinions in the Balie Books, which they keep, and which they study very little.

Alms at Fune-

The Family of the deceased entertains the Train, and for three days it bestows Alms: viz. On the day that the body is burnt, to the Talapoins which have fung over the body, the next day to their whole Convent, and the third day to their Temple.

Funerals redoubled.

This is what is practifed at the Funerals of the Siameles: to which it is requifite only to add, that they imbellish the Show with a great many Fire-works, and that if the Funerals are for a man of great consequence, they last with the fame Shows for three days.

ral Honors.

It fometimes also happens that a Person of great Quality causes the body of his Father to be digged up again, though a long time dead, to make him a pompous Funeral, if when he died, they made him not such a one, as was worthy of the present Elevation of the Son. This participates of the Customs of the Chineses, who communicate as much as they can to their dead Relations, the Honors to which they arrive. Thus when a man not born a Kings Son arrives at the Crown of China, he will with certain Ceremonies cause the Title of King to be given to his deceased Father.

thefe Pyra-

what the fire After the body of a Siamese has been burnt, as I have said, the whole Show confumes not, is ended; they that up the remains of his Body in the Coffin, without any Oris oursed under pyramids: and der; and this depositum is laid under one of those Pyramids, wherewith they how the sit- encompass their Temples. Sometimes also they bury precious Stones, and other Riches with the body, because that it is to put them in a place which Religion renders inviolable. Some there are who say, that they cast the Ashes of their Kings into the River, and I have read of the Peguins, that they make a Paste of the Ashes of their Kings with Milk, and that they bury it at the mouth of their River when the Sea is retired : but as the Fire never consumes all, and as it principally spares the Bones, the Siameles and Peguins do put these remains of their Kings under Pyramids. These Pyramids are called Pra Tchiai di. Pra is that Baly Term, which I have frequently mentioned. Tchiai-di fignifies Good Heart, that is to fay Contentment, as I have explained it in the other part: So that Pra Tehiai-di amounts to these words sacred repose, as much as those of Repose and Contentment do resemble.

From whence

A Tomb quite flat like ours would not in their opinion be honourable enough, came the fan- they must have something of Eminence: and this is the sancy of the Pyramids of Agypt, and the Mausolea. Some People yet more vain have joyned Epitaphs thereto: and because that time effaces the Inscriptions, which are exposed to view, others have fecretly put their names on the principal Stones of certain stately edifices: So that when they are discovered, their work is already demolished to the Foundation. The Siameses still keep to the first degree of Vanity, which is fingle Pyramids without any Epitaph, and fo flightly erected, that those which last longest, do never last an Age.

build Tem-

Those that have neither Temple nor Pyramid, do sometimes keep at their meles love to house the ill burnt remains of their Parents: But there hardly is a Siamele rich enough to build a Temple, who does it not, and who buries not the Riches he has remaining. The Temples are inviolable Sanctuaries, as I have faid, and the Kings of Siam, as well as particular persons, commit their Treasures to them. I know that the Siamefes have demanded fome smooth Files of the Europeans, to cut the great Iron Bars which linked the Stones in the Temples, under which there was Gold concealed. The Siamefes which have not wherewith to build a Temple, cerfe not at least to make some Idol, which they give to some of the Temples already built: Which in these People is a sentiment of Vanity or Religion, whereas the building of Temples may be as much the Interest of pre-

ferving their Riches to their Family, as any other thing.

The Poor interr their Parents without burning them; but if it is possible for The Funerals. them, they invite the Talspoins, who stir not without a Gratuity. Those that of the Poor, have not wherewithal to pay the Talapoins, do think they do honor enough to their dead Parents, to expose them in the Field on an eminent place; that is

to fay on a Scaffold, where the Vulturs and the Crows devour them.

I have already faid, that in Epidemical Diftempers they bury the Bodies Funeral howithout burning them; and that they dig them up and burn them some years nors recarded, after, when they think all the danger of the Infection is past.

But they never burn those that Jultice cuts off, nor Infants dead-born. Those that are nor Women that die in Child-bed, nor those which drown themselves, or deprived of which perish by any other extraordinary disaster, as by a Thunderbolt. The Funeral Honors. rank these unfortunate persons amongst the guilty, because they believe that fuch Misfortunes never happen to innocent Persons.

Mourning at China is prescribed by the Law, and that for the Father and Mo. Mourning ther lasts three years, and deprives or bereaves the Son during this time, of all forts of publick Employment, if it is not Military: though to me it feems that this exception as to Millitary Employments, is a late establishment. On the contrary, the Siameses have no forced Mourning: they give marks of Sorrow only as much as they are Afflicted; fo that it is more common at Siam, that the Father and the Mother put on Mourning for their Children, than that the Children wear it for their Father and Mother. Sometimes the Father turns Talapoin and the Mother Talapoinesse, or at least they shave the head one of the other: but there is only the true Talapoins, that can likewise shave the

To me it appeared not that the Siameles invoke their dead Parents, what en whether the quiry soever I have made upon it; but they cease not to believe themselves stameses pray frequently tormented with their Apparitions: and then they carry Viands to to the Dead, their Tombs, which the Beafts do eat; and they give Alms for them to the Tas lapoins, because they think that Charity is a Ransom for the Sins of the dead, as well as of the living. Befides this the Siamefes almost on all occasions, do offer up Prayers to the good Genij, and imprecations against the bad, of which I have already given some examples; And these Genij are certainly in their opinion only Souls, all as I have faid, of the same Nature.

The wicked Genij are the Souls of those, which dye, either by the hand of How it must Justice, or by some of those extraordinary missfortunes, which make them be understood to be judged unworthy of Funeral Honors. The good Genij are all the other of the Good Souls, esteemed more or less good, according as they have been more or less are changed Virtuous in this life. And this wholly resembles the Opinion of Plato, who into Angels, requires that one should adhere to Vertue during life, to the end that the custom and the Souls thereof may continue after death. This amounts likewise to that Antient O- of the wicked pinion, which was spread also amongst some of the Antient Christians, that into Devils. the Souls of the good are changed into Angels, and the Souls of the wicked into Devils. But amongst the *Indians*, this doctrine is no other, than that the Souls of the good, spring up again after Death, in one of those places, which the Portugueses have called Paradice, and the Souls of the wicked, in one of those other places, which they do call Hell. Some continuing to be good after Death, do good to men, others continuing to be wicked, do hurt to men, and every thing elfe, as much as they can. And who knows whether thele feveral Paradices which they believe, are not a confused remembrance of the several Orders of the Celestial Spirits.

Now through an incredible blindness, the Indians admit not any Intelligent The Indians Being, which judges of the goodness or badness of Humane actions, and which have no God Being, which judges of the goodness of badness of Flumane actions, and which is the orders the Punishment or Recompence thereof. Upon this account they admit only a blind fatalility, which, fay they, is the reason that Prosperity accom-mane Actions. panies Vertue, and Misfortune Vice; as it determines heavy things to descend

and light things to ascend. And because that nothing more repugns reason. than to suppose an exact Justice in chance, or in the Necessity of Fate, the Indian People incline themselves to believe something Corporeal in good or bad works, which, they fay, has the power of doing unto men, the Good or Evil which they deferve. But fince we have often faid, that the *Indians* do own the diffinction of good or bad Works, it is necessary to set down the Principles of of their Morality.

#### CHAP. XXI.

#### Of the Principles of the Indian Morals.

Five Negative THey are reduced to five Negative Precepts, very near the fame in all the Cantons of the Indies. Those of the Siameses are such as follow. Precepts.

1. Kill nothing.

2. Steal nothing. 3. Commit not any impurity.

4. Lye not.

5. Drink no intoxicating Liquor, which in general they call Laou.

The first Precept is not limited to the Killing either Men or Animals: but it cept extends to extends to Plants, and to Seeds; because that by a very probable Opinion, they believe that the Seed is only the Plant it self in a Cover. The Man therefore observing this Precept, as they understand it, can live only on Fruit; foraf-much as they consider the Fruit not as a thing which has Life, but as a part of a thing which has Life, and which suffers not, though its Fruit be pluck'd. In eating the Fruit it is necessary only not to eat the Kernel nor Stone, because they are Seeds: and it is necessary not to eat Fruit out of season, that is to say, in my opinion, before the Season; because that it is to make the Seed, which the Fruit contains, abortive, by hindering it from ripening.

Besides this, the Precept of not killing, extends to the not destroying any

destroying any thing in Nature: by reason they think that every thing is animated, or if you will that there are Souls every where, and that to deftroy any thing whatever, is forceably to difpoffes a Soul. They will not, for inftance, break a Branch of a Tree, as they will not break the Arm of an innocent Person. They believe that it is to offend the Soul of the Tree. But when once the Soul has been expelled out of a body, they look upon this as a Destruction already wrought, and think nothing to be destroyed in nourishing themselves with this Body. The Talapoin make not any scruple of eating what is dead, but of killing what they think alive.

more abhor Blood than Murder.

In several things they testify a greater Abhorrence of Blood, than of Murder: things they do It is prohibited them to make any Incilion, from whence there gushes out Blood; as if the Soul was principally in the Blood, or that it was only the Blood. And this perhaps is a confused remembrance of the ancient Command of God, who permitting unto man the use of Meats, prohibited him from eating the Blood of the Animals, because that the Blood supplys in them the place of the Soul. There are some Indians which dare not to cut a certain Plant, because there comes out a red Juice, which they take for the Blood of this Plant. The Sia. meses do scruple to go a fishing, only on the days when the Talapoins shave their Head. This done, it feems to them that when they fish, they commit no Crime; by reason they think not themselves guilty of the Death of the Fishes. They say they only pull them out of the Water, and shed not their Blood. The least evasion sufficeth them to elude the Precepts. Thus they think not to fin by killing in War, because they shoot not direct at the Enemy : though at the bottom they endeavour to kill, as I have already explained it, discoursing of their manner of fighting. But

But if any one tells them, that according to the opinion of the Metempfychofis, The Opinion Murder oftentimes appears laudable, feeing that it may deliver a Soul from a of the Meiemp-milerable Life: They answer that forceably to disposless Souls is always to liberary and that we recovery the green of the soul of offend them; and that moreover they are not relieved, because they reenter Murder of the into the like Bodies, there to fill up the rest of the time, during which they are unhappy, if it defigned for this fort of Life. But they confider not that this reason would renders not all also prove that they did no real Injury in killing; and the Chineses who in this do ferent, think otherwise than the Siameses, do kill their Children when they have too

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many, and they alledge that it is to make them spring up more happy.

Part III.

Moreover all the Indians do think, that to kill themselves is not only a thing To kill thempermitted, because they believe themselves Masters of their selves; but that to them a veit is a Sacrifice advantageous to the Soul, and which acquires it a great degree ry laudable of Vertue and Felicity. Thus the Siamefes do formetimes hang themselves out thing, of Devotion, on a Tree which in Balie they call Prasa maha Pout, and in Siamefe Ton po. These Balie words do seem to signifie the excellent, or the holy Tree of the great Mercury; for Pout lignifies Mercury, in the Balie Name of Wednelday. The Europeans do call this Tree, the Tree of the Pagades, because the Siameses do plant it before the Pagads. It grows in the Words like the other Trees of the Country, but no particular Person can have thereof in his Garden; and it is of this Wood, that they make all the Statues of Sommona Codom, which they would make of Wood. But in that Zeal which fometimes determines the States meles to hang themselves, there is always some evident subject of a great distaste of Life, or of a great Fear, as is that of the Anger of the Prince.

Tis about fix or seven years since a Peguin burnt himself, in one of the Tem. The Story of ples, which the Peguins at Siam have called Sam Pihan. He feated himself crofs, leg'd, which burnt and befmear'd his whole body, with a very thick Oil, or rather with a fort of himself. Gum, and fet fire thereunto. 'Twas reported that he was very much difcontented with his Family, which nevertheless lamented exceedingly about him. After the Fire had smother d and roasted him well, his body was covered with a kind of Plaister; and thereof they made a Statue which was gilded and put upon the Altar, behind that of the Sommona Codom. They call these forts of Saints

Pra tian tee; tian signifies true, tee signifies certainly. Behold then how the Siameses understand the first Precept of their Moral Law.

I have nothing particular to fay upon the fecond: but as to the third which the prohibit all manner of Uncleanness, it extends not only to Adultery, but to all rity extended carnal Commerce of a Man with a Woman, and to Marriage itself. Not on the Prohibitily Celibacy is amongst them a state of Perfection, but Marriage is a state of on of Marriage is a state of on the Marriage of the prohibitile prohibitile through the Solitic of Modelly which promed all National Commerce of the Prohibitile of the Proh Sin: either through that Spirit of Modesty, which amongst all Nations is an-age: next to the use of Marriage, and which seems therein to suppose an evil whereat they blush: or through a general Aversion to all natural indecencies, some of which were legal Impurities among the Jews. They wash themselves amongst certain People after having seen their Wives, as after some other fort of Pollution. Mahomet thought Women unworthy of Paradice, and without declaring what they shall become, he promises some fairer and more beautiful to his Elect.

The Chinese Philosophers do say, that a Wise is a thing evil in itself, and that The Chinese Philosophers one must neither keep his own, nor take another, when he has Children, that efteem Dimay render unto their Parents from whom they are born, and to their Ancestors, vorce a Virusthe Duties which the Christian Religion thinks necessary to the repose of the ous Action. dead. Without this pretended necessity they would believe Marriage unlawful, and to foon as they have Children, they think it a Vertue to make a Divorce. They cite the example of Confucius, who quitted his Wife when he had a Son: they alledge the example of this Son, who likewife quitted his; and the example and opinion of feveral other Chinese Philosophers, who have made a Divorce with their Wives, and who have esteemed the Divorce amongst the virtuous Actions They condemn as a Corruption of the ancient manners of China, the Opi-

nion of the modern Chinese People, who as well as the Siameses, guided by the sentiments of Nature, look upon Divorce, if not as an Evil, at least as a Misfortune. I know nothing concerning the fourth Precept, which deferves to be explained.

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The fifth not only prohibits intoxicating, but the drinking of any Liquor, which intoxi- which may intoxicate, **though** one makes not himfelf drunk therewith. They which is prohi- efteen athing evil in itlelf, which may hurt by the quantity.

"Fis thus that they understand their Precepts, neither do they believe that real Vertue is made for every one, but only for the *Talapoins*. They think that what is Sin in it[elf, is Sin for all; and the *Talapoins* make neither Vow, nor any thing whatever, which is a Sin in them, which is not a Sin to all the World; but according to them, the Trade of Seculars is to fin, and that of the Talapoins not to fin, and to exercife Repentance for those that fin. They comprehend like us, that those who are defigned to expiate the Sins of others by Repentance, ought to be more pure than others; and that the Punishment due and necessary rily annext to Sin, may yet pass from the guilty to the innocent, if the innocent will willingly fubmit himfelf to deliver the guilty. Moreover they conceive the Nature of Sin very grofly, and very materially; for the Talapains content themfelves with abftaining from Actions which they think wicked, but they fcruple not to make the Seculars commit them, to get Advantage thereby. Thus when they would ear Rice, Rice being a Seed they cannot boil it without Sin, because it is to kill it : But they make their Tapacaun, which are their Domestic Seculars, or rather they cause the Talapain-Children, which they educate, to commit this pretended Sin; and when the Rice is boiled, then they eat it. They are also prohibited to piss on the Fire, or in the Water, or on the Earth, because that this would be to extinguish the Fire, or to corrupt those two other Elements they pifs in fomeVeffel, and a Secular Servant pours it where he pleafes, and it matters not whether he fins.

The Seculars do therefore observe, or clude the Precepts only through the fear of the publick Chaftifements, or through the natural ftrangeness which they might have to what they shall think Sin 5 but they ranfom their Sins by their good Works, which principally confift in bestowing Alms on the Temples and Talapoins, according to the ancient Tradition known perhaps throughout the Earth, and so frequently repeated in the Holy Scripture, that Alms deeds ranfom Sins. It is easie also to observe in them a very natural and very just fentiment, which is that they much more condemn the Sins which may be easily avoided, than those which are inevitable, though they think that all are Sins. But to the end that the Morality of the Talapoins may be better understood, I will insert at the end of this Work, most of their Maxims verbatim, as they were given me. I will add only some Remarks to make them better understood.

There will be feen the respect which they have for the Elements, and for all the Maxims of Nature. They are prohibited to speak injuriously of any thing natural; to dig any hole in the Earth, and not to fill it up again after they have done it; to boil the Earth, as to boil Rice; to kindle the Fire, because it is to deftroy that with which it is kindled; and to extinguish it when it is once kindled. There we shall see that they take care of Purity and Decency, as much as of real Virtue: that they have some Idea's of almost all the Virtues, and that they have hardly any that is exact; because they carry some to superstitious scruples,

and that they live short of others.

Moreover these Maxims are only for the Talapoins; not that they think that any person can violate them without Sin: but it is that they see it is impossible for any one not to infringe them : as for example, it is very necessary that some person make the Fire. They are surprized at the Beauty of our Morality, when it is told them that it equally invites all men to Vertue, because they comprehend not that this can be a thing practicable : but when they are made to understand it, and are informed that Vertue confists not in those impossible things, wherein they place it, they contemn what is told them, and do believe themfelves more pure and virtuous than the Christians : or rather they return again to believe that they alone are Creeng, that is to fay pure, and that the Christians are Cahat, or deligned to fin, like the reft of Mankind : A prevention which must quite confound us, and which proves the extream necessity which humane reason has of a superior Light, not to try in the knowledge of good and evil, the Idea's of which do nevertheless appear unto us so easie, and so natural.

If therefore the Talapoins do think themselves only vertuous, it is no wonder The Vanity of if they likewife allow themselves all the Pride imaginable in regard of the Se- the Talapointculars. This Pride appears in all things; as in that they affect to feat themselves higher than the Seculars, never to falute any Secular, and never to bewail the death of any person, not even that of their Parents. They have a Practice which refembles Confession, for from time to time they seem secretly to render an account of their Deportments to their Superior; but are fo far from confeffing themselves Sinners, that they only run over the Precepts, to say they have not violated them. I have not ftolen, fay they, I have not lied, and fo of the reft. And in a word they are not humble, and they have rather the Idea's of Humiliations and Mortifications than of Humility.

They feem to understand Entertaining and Retirement.

A Talapoin sins, if Some Appearing along the Streets, be hus not his Sonses composed. A Talapoin sins, if he ances of cermeddles with State Assaurance. They concern not themselves therein, without a tain Monagreat deal of Distraction, and without attracting the Envy and Hatred of seven in the Talaral; which fuits not to a Talapoin, who ought only to mind his Convent, and to point. edific every one by his Modelty. But moreover I believe that a wife Policy has greatly contributed to interdict State Affairs to persons, who have so great a Power upon the Minds of the People. They understand Religious Obedience. Obedience is the Vertue of every one in this Country, and it is no wonder that it is found in their Cloifters. They likewife understand Chastity. A Talapoin fins, if he coughs to attract on him the Eyes of the Women, if he beholds a Woman with Complacency, or if he defires one; if he uses Perfumes about his Person, if he puts Flowers to his Ears: and in a word, if he adorns himself with too much Care. And some would likewise say, they understand Poverty, because it is prohibited them to have more than one Vestment, and to have it precious: To keep any thing to eat from the Evening, till the next day; to touch either Gold or Silver, or to defire it. But at the bottom, as they may abandon their Profession, they act so well, that if they live poorly whilst they are Talapoins, they fail not to heap wherewith to live at their Ease, when they cease to be so. And these are the Idea's which the Siameses have of Vertue.

#### C H A P. XXII.

Of the Supream Felicity, and Extream Infelicity amongst the Siameses.

T remains for me to explain wherein they place perfect Felicity, that is to Perfect Felicity and Perfect Felicity in Perfect Fe lieve therefore that if by several Transmigrations, and by a great number of good Works in all the Lives, a Soul acquires fo much Merit, that there is not in any World any mortal Condition, that is worthy of it; they believe, I fay, that this Soul is then exempt from every Transmigration, and every Animation, that it has nothing more to do; that it neither revives, nor dies any more; but that it enjoys an eternal Unactivity, and a real Impassibility. Nirenpan, say they, that is to fay this Soul has disappeared: it will return no more in any World: and tis this word which the Portugueses have translated it is annihila. What the Portugueses have translated it is annihila. World: and listing word which the Foringness have translated of the Siame-tugueles have ted; and likewife thus, It is become a God, though in the Opinion of the Siame-tugueles have

for, this is not a real Annihilation, nor an Acquifition of any divine Nature,

Such is therefore the true Paradice of the Indians: for the https://doi.org/10.1006/10 great Felicity in the highest of the nine Paradices, of which we have already Perfect Felicidiscoursed; yet they say that this Felicity is not eternal, nor exempt from all ty, nor the ex-Inquietude; feeing that it is a kind of life, where one is born, and where one ty, according to dies, the Standar.

na-Codom.

No Llea of a

Divinity amongst the

Stameles,

dies. By the like reason, their true Hell is not any of those nine places which we have called Hell, and in some of which they suppose Torments and eternal Flames: for the there may eternally be some Souls in these Hells, these will not always be the same: No Soul will be eternally punished; they will revive

again to live there a certain time, and to depart thence by death. The utmost

But the true Hell of the Indians is only, as I have already faid, the eternal degree of In- Transing grations of these Souls, which will never arrive at the Nirenpan, that is to say, will never disappear in the whole duration of the World, which they do think must be eternal. They believe, that it is for the Sins of these Souls, and for their want of ever acquiring a fufficient merit, that they shall continually pass from one Body to another. The Body, whatever it be, is always according to them, a Prison for the Soul, wherein it is punished for its Faults.

But before that a Man enters into the supreme Felicity, before that he difap-The Wonders which they pears, to speak like them, they believe that after the Action, by which he concludes to merit the Nirenpan, he enjoys great Priviledges from this life. They relate of a ferves the Ni- believe that it is then that fuch a Man preaches up Vertue to others with much reupan, and more efficacy; that he acquires a prodigious Science, an invincible strength of how they con Body, the power of doing Miracles, and the knowledge of whatever has befecrate their fallen him in all the Transmigrations of his Soul, and of whatever should happen to him till his death. His death must likewise be of a fingular fort, which Temples to they think more noble than the common way of dying. He disappears, they say, like a Spark, which is lost in the Air. And it is to the memory of these forts hio.

of Men, that the Siameles do consecrate their Temples.

Now tho' they say that several have attain'd to this Felicity, ( to the end, in Tha' they believe in fever my opinion, that feveral may hope to arrive thereat ) yet they honour only one nour only one alone, whom they esteem to have surpassed all the rest in Vertue. They call named Sommo-him Sommona-Codom; and they fay that Codom was his Name, and that Sommona fignifies in the Balie Tongue, a Talapoin of the Woods. According to them, there isno true Vertue out of the Talapoin Profession, and they believe the Talapoins

of the Woods much more vertuous than those of the Cities.

And this is certainly the whole Doctrine of the Siamefes, in which I find no Idea of a Divinity. The Gods of the ancient Paganifm which we know, govern'd Nature, punished the wicked, and recompened the good; and tho they were born like Men, they came of an immortal Race, and knew not death. The Gods of Epicuru took care of nothing, no more than Sommona-Codom; but it appears not that they were Men arrived thro their Vertue at that state of an happy Inactivity, they were not born, neither did they dye. Aristotle has acknowledged a first Mover, that is to say a powerful Being, who had ranged Nature, and who had given it, as I may fay, the fwing, which preferv d the harmony therein. But the Siameles have not any fuch Idea, being far from acknowledging a God Creator; and so I believe it may be afferted, that the Siame se have no Idea of any God, and that their Religion is reduced all intire to the worship of the dead. And it is necessary that the Chineses understand it thus, and that they think not that Pagode fignifies God: for Father Magaillans informs us, that they are offended when Confucius is treated as a Pagode; because this is to treat him not as God, which would not be an injury to Confucius: but as a Man arrived at the supreme Vertue of the Indians, which the Chineses do think very much inferior to the Vertue of Confucius.

#### C H A P. XXIII.

Concerning the Origine of the Talapoins, and of their Opinions.

It feems that tr may be found in the tifelf into fuch strange Digressions, I think to find the Footsteps thereof in the Chinese Antiquity.

The Chineles are so ancient, that it must be presumed that at the beginning If the anthey knew the true God, and by him good and bad Works, and the Recompenacknowledge ces or Punishments which the one and the other were to expect from that Omnipotent Judge, but that by little and little they have obscur'd and corrupted they soon corthese Idea's. God, that Being so pure and so perfect, is at most become the ma rupted the terial Soul of the entire World, or of its most beautiful part, which is the Idea thereof.

Heaven. His Providence and his Power have been no more than a limited Providence and Power, tho' nevertheless a great deal more extensive than the strength and prudence of Men. It feems, says Father Trigaut, in the first Book of his Christian Expedition to China, chap. 10. That the ancient Chineses have believed the Heaven and the Earth animated, and that they have ador'd the Soul as a Supreme God, calling him the King of Heaven, or simply the Heaven and the Earth. Father Trigaut might raise the same doubt upon all things; for the Doctrine of the Chineses has continually attributed Spirits to the four parts of the World, to the Planets, to the Mountains, to the Rivers, to the Plants, to the Cities and their Ditches, to Houses and their Chimnies, and, in a word, to all things. And all the Spirits appear not good to them; they acknowledge some wicked ones, to be the immediate cause of the mischiefs and disasters to which the humane life is subject. Moreover, as they thought the Earth and the Sea fixt to the Heaven by the Horizon, they have attributed but one Spirit or one Soul to the Heaven and the Earth; tho' nevertheless, and perhaps by some thought contrary to their first opinion, they have built two different Temples, the one consecrated to the Heaven, and the other to the Earth.

As therefore the Soul of Man was, in their opinion, the fource of all the vi- They have ta-As therefore the Soul of Man was, in their opinion, the fource of an tile vital Actions of Man; fo they gave a Soul unto the Sun, to be the fource of its ken from God tal Actions of Man; fo they gave a Soul unto the Sun, to be the fource of its ken from God qualities and of its motions: and on this Principle the Soul's diffused every Providence where, caufing in all Bodies the Actions which appear natural to these Bodies, and Omnipothere needs no more to explain in this opinion the whole occonomie of Nature, tence. and to supply the Omnipotence, and infinite Providence, which they admit not

in any Spirit, not even in that of the Heaven.

Part III.

In truth, as it feems that Man, using things natural for his nourishment, or for They have his conveniency, has fome power over things Natural, the ancient opinion of the made God as Insconvenience, has some power over traings inatural, the ancient opinion of the made God a Chinefer, allowing such a like power proportionably to all the Souls, supposed a King of all that that of the Heaven might act over Nature, with a prudence and strength nor a King of incomparably greater than Humane Prudence and Power. But at the same time ways obeyed, it acknowledg'd in the Soul of every thing, an interior force, independent by its nature from the Power of Heaven, and which acted sometimes against the Designs of Heaven. The Heaven governed Nature as a powerful King: the other Souls paid Obedience to him: He almost continually forced them, but some there were which sometimes dispenced with obeying him.

me there were which iometimes dispensed with obeying him.

Confucing discoursing of boundless Vertue, which is the true Idea that we lieves extream have of the Divinity, thinks it impossible. How vertuous soever, saith he, a man Vertue imposis, there will yet be a degree of Vertue, to which he cannot attain. The Heaven and the fible, and conto, there will get be a degree of vertile, to which he cannot attain. In the tenth feet fatisfy the sequently he Earth, adds he, tho so great, so perfect, and so curiously wrought, cannot yet satisfy the chinks the Idea Desires of all; by reason of the Inconstancy of the Scasons, and of the Elements: so we have of that Man finds in them wherewith to reprehend, and even just Subjects of Indignation. God impossi-Wherefore if we throughly comprehend the greatness of extreme Virtue, we shall neces ble: farily confess that the whole Universe can neither contain nor sustain the weight thereof. If, on the contrary, we think upon that subtil and conceal a point of Perfection in which it consists, we shall consess that the whole World can neither divide nor penetrate it. Thefe are the words of Confucius, as Father Couplet has given them us, by which this Philosopher seems to have had no other intention, than to describe the real Divinity, which he believes impossible, seeing that he finds it no where, not even in the Spirit of the Heaven and the Earth, which is what he conceived

The Divine Power and Providence being thus distributed as by Piece meals, due to the Creto an infinite number of Souls, the ancient Chinefes thought themselves obliged ator divided a to an infinite number of Souis, the ancient Connejes thought themselves obliged monga the to address to this infinite multitude of Souls and Spirits, the Vows and Wor- Creatures by

thip which they ow'd only to one alone.

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Of Chineses.

Of Nature Stare like to

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Of Nature they make an invifible Monarchy, which they mould theirs upon, and of which they believe that the invifible members had a continual correfpondence with the members of the Chinese Monarchy, which they thought to possets near the whole Earth. To the Spirit of Heaven they allot fix principal Ministers, as the King of China has fix, which are the Presidents of the fix chief Tribunals, wherein they only have a determinative Voice. They believe that the King of Heaven (for they give this Title to the Spirit of Heaven) intermeddled only with the person and manners of the King of China. That all men ought to honour this supream Spirit, but that the King of China only was worth to honour the supream Spirit, but that the King of China only was worth to the Spirit thy to offer Sacrifices unto him; and for these Sacrifices they had no other Prieft. The Ministers of China offer'd Sacrifices to the Ministers of Heaven: and every Chinese Officer thus honoured an Officer like to him near Heaven. The People factificed to a multitude of Spirits diffused every where, and every one was Priest in this fort of worship: there being not any Order, or Religious

dinn have ad-good as bad, diffuled every where, to which they have diffulbuted the Divine ded to the Errors.

And there is yet found fome remains of this very Opinion amongst the *Indians*, which have embraced Mahumetanisn. But by a new Ex-ror the Pagans of the *Indies* have thought all these Souls of the same nature, and they have made them all to rowl from one body to another: The Spirit of the Heaven of the aucient Chinefes had some Air of Divinity: It was, I think, immortal, and not subject to wax old, and to die, and to leave its place to a Succeflor: but in the Indian Doctrine of the Metemplychofis, the Souls are fixed no where, and fucceeding one another every where, they are not one better than another by their nature: they are only defigned to higher or lower functions in Nature, according to the merit of their work.

tecrated no Temple to the even to that of

Chineles have divided the

How they be-

body, for the fervice of the Temples, and for the Sacrifices.

The Indians, do now believe, like the ancient Chineses, fome Souls, as well

Thus the Indians have confecrated no Temples to the Spirits, not so much as to that of Heaven: because they believe them all Souls, like all the rest, which are still in the course of Transmigration, that is to say in Sin, and in the Torments of different forts of life, and confequently unworthy of having Altars.

But if the ancient Chineses have, as I may say, reduc'd the Providence and Omnipotence of God into piece-meals, they have not less divided his Justice. The Ancient They affert that the Spirits, like concealed Ministers, were principally bussed in punithing the hidden faults of men; that the Spirit of Heaven punithed the faults of the King, the Ministring Spirits of Heaven the faults of the King's Ministers, and so of other Spirits in regard of other men.

The Juffice of On this Foundation they faid to their King, that though he was the adoptive Haaven was John the Heaven, yet the Heaven would not have any regard to him by any fort of Affliction, but by the fole confideration of the good or evil, that he should butted in punifiling the faults of the Government of his Kingdom. They called the Chingle Empire, the Faults of the Celefial Command; because, faid they, a King of China ought to govern his State, Kings of Ghina, as Heaven governed Nature, and that it was to Heaven, that he ought to feek as Freaven governed Pature, and that it was to Heaven, that he ought to feek the Science of Governing. They acknowledged that not only the Art of Ruling was a Prefentfrom Heaven; but that Regality it felf was given by Heaven, and that it was a prefent difficult to keep; because that they supposed that Kings could not maintain themselves on the Throne without the favour of Heaven, ven, nor pleafe Heaven but by Vertue.

They carried this Doctrine to far, that they pretended that the fole Vertue

of Kings, might render their Subjects Vertuous; and that thereby the Kings were first responsible to Heaven for the wicked manners of their Kingdom. were tritt reponnote to Fraver for the Willing according to the Laws for the wen for the manners of the manners of China, was, in their Opinion a Donative from Heaven, which they called of China, was, in their Opinion a Donative from Heaven, which they called the Manner of Heaven and like to that of Heaven and the control of the contr their Subjects. Celefinal Reason, or Reason given by Heaven, and like to that of Heaven: The Vertue of Subjects, according to them, the regards of the Citizens, as well from one to another, as from all tourards their Prince, according to the Laws of Chief, was the work of good Kings. Tis a finall matter, faid they, to punish Crimes, it is necessary, that a King prevents them by his Vertue. They extoll one of their Kings for having reigned Twenty two years, the People not perceiving,

that is to fay, not feeling the weight of the Royal Authority, no more than the force which moves Nature, and which they attribute to Heaven. They report then that for thele Twenty two years there was not one fingle Process in all China, nor one fingle Execution of Justice; a Wonder which they call to govern imperceptably like the Heaven, and which alone may cause a doubt of the Fidelity imperceptably like the Heaven, and wnich atone may cause a doubt of the Pitching of their History. Another of their Kings meeting, as they say, a Criminal, which was lead to Punishment, took it upon himself, for that under his Reign he committed Crimes worthy of Death. And another seeing China affliched with Sterility for seven years, condemned himself, if their History may be credited, to bear the Crimes of his People, as thinking himself only culpable; and resolved to devote himself to death, and to sacrifice himself to the Spirit of the Crimes of Kings. But their History adds, that Heaven, the Revenger of the Crimes of Kings. But their Hiltory adds, that Heaven, fatisfied with the Piety of that Prince, exempted him from that Sacrifice, and reftored Fertility to the Lands by a fudden and plentiful Rain. As the Heaven therefore executes Justice only upon the King, and that it inflicts it only upon the King for what it fees punishable in the People, the Minifters of Heaven do execute Justice on the secret Faults which the King's Ministers commit, and all the Officers which depend upon them: and after the same manner the other Spirits do watch over the Actions of the Men, that in the Kingdom of China have a rank equal to that, which these Spirits do posfels in the invincible Monarchy of Nature, whereof the Spirit of Heaven is

Befides this the natural Honor which most men have of the dead, whom The Chinese they knew very well in their Life-time s, and the Opinion which several have of fear their dead having seen them appear to them, whether by an effect of this natural Honor, Parents. which reprefents them to them, or by Dreams fo lively, that they refemble the Truth; do induce the ancient Chinefes to believe that the Souls of their Anceflors, which they judged to be of very fubtile matter, pleased themselves in continuing about their Posterity; and that they might, though after their death, chastise the Faults of their Children. The Chinese People still continue in these opinions of the temporal Punishments, and Rewards which come from the Soul of Heaven, and from all the other Souls; though moreover for the greatest part they have embraced the Opinion of the Metempsichosis, unknown to their

But by little and little the Men of Letters, that is to fay, those that have The Implety But by little and little the Men of Letters, that is to lay, those that have fome degrees of Literature, and who alone have a Hand in the Government, chineles which being become altogether impious, and yet having altered nothing in the Lan- are men of guage of their Predecessors; have made of the Soul of Heaven, and of all the Learning. other Souls, I know nor what aerial fubftances, unprovided of Intelligences and for the Judge of our Works, they have established a blind Fatality; which, in their opinion, makes that which might exercise an Omnipotent and Illuminated Unifice. How ancient his Impiety is at China, belongs not to me to determin. Father de Rhodes in his History of Tonquin, accuses Confucins himself therewith: Father Couplet, to whom we owe the Translation of several of this Philosophers Works, pretends to justifie him; and he at the same time recites several Arguments of the modern Chineses, by which they endeavour to demonstrate, that it is a thing wholly conformable to the Principles of Nature, that by the fecret, but certain fympathies, between Vertue and Felicity, and between Vertue and Infelicity, Vertue mult always be prosperous, and Vice always unhappy but in truth their Arguments are so elevated, and so forced, and correfound fo ill to the Language of their Ancestors, that it is very apparent that they are only the effect of a great extravagancy of Imagination, which was not in their Ancestors.

The Stamefer do not less dread Spirits, than the Chinefer's though they imagine The Stamefer not perhaps the Conformity between the Kingdom of the dead and theirs; have no other and moreover they have not loft the Idea of the Divinity less than the Chineses, Judge of Huand moreover mey have not not the atea of the Divinity lets that the Omnets, Joseph and that they have yet preferved this ancient Maxim, which promifes Rewards than Fatality Evidence of the Actions of the Actions of the Actions of the Actions of the Action of the Actions of t to Vertue, and which threatens Sin with Punishments; they have found out no to Vertue, and which threatens on with running or to a blind Fatality of the way, than to attribute this diffributive Justice to a blind Fatality. So

that according to them, 'tis the Fatality which makes the Soul to pass from one state to a better or a worse, and which retains them more or less proportionably to their good or bad works. And it is by these degrees that men are wholly fallen from the Truth, when they would guide themselves by that weak reason,

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The Indiant As to the Origin of the Indiant, and their Compeers, which are spread believe therst throughout the East, under several Names, as Bramins, Tigates, and Bouseas; it tapais and is so obscure in Autouity, that it is difficult, in my opinion, ever to discover their Doctrine it. It more that the Indiant do believe the kind of men and their Doctrine. their poetrine is it. It appears that the Indians do believe this kind of men, and their Doctrine, as ancient as the World. They name not their Founders, and they finds that it is of this Profettion, that all the men have been, whose Statues are honoured in their Temples, and all those others which they suppose to have been adored before those, which they now adore.

The Chineses report, that the Boozees and their Doctrine came to them from do name che the Indies, in the eighth year of the Reign of Mim-ti, which antivers to the Kit for the Au 65th of our Salvation: and as they love to give the Origin of all things, they for of othis Doctrine.

Some for this fay that it was a Siamele named Che Kia, who was the Author thereof, about fay that it was a Siamele named Che Kia, who was the Author thereof, about for Thouland years before the Nativity of Jefus Chrift, though the Siamele's themselves do pretend no such thing, and who boasting Antiquity in all things, like all the other Indians, they imagine that the Doctrine of the Metemplebolis, is as ancient as the Souls themselves. The Jappomslet do call the Che Kia of the Chineses, Chalea, and the Tonquincies have corrupted this same word after another manner: for according to Father de Rhodes, they call it Thisa.

That this Che Woords Tchaonera, and Tchaonera, to make suspect that they are only a light lythe Siamsel Corruption thereof. Tchaonera and Tchaonera on signifies Lord, or literally Lord of

Ria is certain—WORDS 1 Condut-Ca, and 1 conducton, to make tangent that they are only a light by the Stamele corruption thereof. Tobase-ca and Tobase-ca fignifies Lord, or literally Lord of me, with this difference, that the word ca which fignifies me, is us'd only by Talapinin.

Talapinin. The peaking to their Mafters, or by those who would render such a respect to him, to whom they speak: whereas the word con which likewise fignifies to him, to whom they speak: whereas the word Tobase to break its before the word to be well as the word Tobase to break its before the word to be well as the word to nini, to whom they ipeak: whereas the word con which inkewife fighthes me, is not for reflectful, and is joyned to the word Tchaon, to speak in the third Person to him that discourses of his Lord. In speaking therefore to a Talapoin, they will say unto him Tchaonea, and in speaking of him to another they will call him Tchaone. But what is remarkable is, that the Talapoins have no other than the third than the Talapoins have no other than the third t name in Sianese: to that they say literally, craipen Tchaou.con, I round be Lord, to signifie I would be Talapoin. Their Sommona Codom they call Pra-pout Tchaou, to fignifie I would be Talapoin. Their Sommona-Lodom they call Pra-poile Technon, which verbatim fignifies the Great and Excellent Lord, and it is in this fense that they speak it of their King: but these words may also signifie, the Great and Excellent Talapoin. After the same manner amongst the Arabians, the word Monetles, which signifies a Doctor of Law, properly signifies Lord, and the word Master is equivocal in our Language: it is spoken of a Doctor, and likewise of the Lord of the Control the King. I find therefore some reason to believe, that the Chineses having received the Doctrine of the Metemplochoft from some Stamese Talapsin, they have taken the general Name of the Profession, for the proper Name of the Author of the Doctrine: and this is so much the more plausible, as it is certain that the Chinefes do alfocall their Bonzees by the Name of Che-Kia, as the Siamefes do call their Talapoins Tchaon-con. 'Tis therefore impossible to affert, from the Testimony of the Chineses, that there was an Indian named Che-Kia, Author of the Opinion of the Metemps; that there was an immen nature of the Metemps; has a Thousand years before Jesus Christ: feeing that the Chineses, who have received this Opinion fince the Death of Christ, and the Conneger, who have received this Opinion fines the Beath of Christ, and perhaps much later than they alledge, are forced to confels, that they have nothing related concerning this Cho. Kia, but upon the Faith of the Indians; who fpeak not one word thereof, not thinking that there ever was any first Author of their Opinions.

Before the Bonzees came from the Indies to China, the Chineses had not any Priests nor Religious; and they have none as yet for their Antient Religion, which is The Antlent way of Infruding the
People, was by Poetry and Musick. They had three
by Musick.

When is that of the State. Amongst them, as amongst the Greeky, the most Antiens
that of the State. Amongst them, as amongst the Greeky, the most Antien
that of the State. Amongst them, as amongst the Greeky, the most had three
that of the Poole, was by Poetry and Musick. They had three
by Musick.

What is the Market three Duties of a good Chinese Citizen, and doubtless all their Philosophy: and it may be that these Odes are still preserved. The Magistrares took care to have them sung Publickly, and Consulsus complains for that in his time he saw this Practice almost exinguished, and all the Antient Musick loft. According to him, the most sure mark of the loss of a State was the loss of the Musick, and Plato, like him, thinks Musick effential to good Policy. These two great Philofophers had learnt that Manners cannot be preferved, without the continual instruction of the People, and that the Laws, that is to say, the only Foundation of the Publick Authority and Repofe, cannot long continue, where the Manners are corrupted: for where the Manners are corrupted, they only Study to Violate or Elude the Laws. The Learned remark in the Pentateuch, the Tracts of such a like Poetry, which contained the History of Illustrious Men, even of those that were more Antient than the Deluge: Moses cites certain places thereof, wherein is remarked the Poetick Stile.

places thereof, wherein is remarked the Poetick Stile.

I conceive therefore that Men being wearied with finging always the fame How the Talithings, and lofing by little and little the fenfe of the old Songs, have cealed to the first and their fines, and have fought fome commentaries on the Verles, which they might have they fung no more, for lack offunderstanding them: That then the Magistrates succeeded the left the care of these Commentaries to other Men, and that they by little and Amiten Poelittle imposing on the belief of the People, have inferred in their Lectures, try and Mattick, when the first or their practicular advances, which they are by Songree of the Surgery than the Surgery than the Songree of the Surgery the Surgery than the Songree of th many things to their particular advantage, which are the Source of the Super-fittious Veneration, which the *Indians* do still retain for the *Talapoins* and their

Fellow-Brethren.

Part III.

However it be, their Habit, their Convents, and their Temples are inviolable, though the Revolutions of this Country, may have showed some examples of the contrary. Viiet whom I have often quoted, relates that when the present King's Father seized on the Crown, he thought it impossible securely to make an attempt upon the Person of one of the Princes of the Royal Family, till he had cunningly made him first to quit the Talapoins Pagne which he wore. After the same manner when this Usurper was dead, his Son who now Reigns, feeing his Uncle by the Father's fide feize on the Throne, turned Talapoin to fecure his Life, as I have reported at the biginning of this Relation.

#### CHAP. XXIV.

Of the Fabulous Stories which the Talapoins and their Brethren have framed on their Doctrine.

HE Talapoins are therefore obliged to supply the ancient Musick, and to Fables comexplain their Balie Books unto the People with an audible Voice. These mont oall the Books are filled with extravagant flories, grafted on the Doctrine which I have bridges, explained: and these Fables are almost the same throughout India, as the ground of the Doctrine is every where the same, or very near. They every where beof the Doctmer severy with the father of the father, and to carry them gradually unto Perfection. They believe Spirits every where diffuled, good and bad, capable of aiding and of hurting, but which are no other than the Souls of the dead; and they admit the Worthip of these Spirits every the souls of the dead; and they admit the Worthip of these Spirits every souls of the dead; and they admit the Worthip of these Spirits every souls are the worthing of these Spirits every souls are the souls of the dead; and they admit the Worthip of these Spirits every souls are the souls of the souls are the souls of the s rits, though they raife no Altars to them; but only to the Mone of the men, whom they conceive to be arrived at the highest degree of Vertue, as far as they think Vertue possible. They all have some Quadruped, which they prefer before all others; some favourite Bird, and some Tree, which they princirer perore an orners; some ravourite pard, and tone free, which they participally adore. They all believe the same thing of the pretended Dragon which causes the Ecliptes, and of the pretended Mountain, round which the whole Heaven turns, to make the Days and the Nights. They have almost the same five Precepts of Morality, they reckon near the fame number of Hells and Para-

through the whole Kingdom, that he was of the first men, which inhabited this Country, and that he would one day become a God, that is to fay arrive at the Nirenpan. The People flocked to him from all parts, to adore him and make him Prefents, till that the King fearing the confequences of this Folly, caufed it to ceafe by the Chastisement of some of those, that suffered themselves to be seduced. I

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have read some such thing in Tof's India Orientale, Tom I. pag. 203. He reports that the Bonzees of Cochinchina, having taken away from them a stupid Infant, flow'd him to the People as a God, and that after having inrich'd them-felves with the Prefents which the People made him, they published that this pretended God would burn himfelf; and he adds that they indeed burnt him publickly, after having flupified his Senses by some Drink, and calling the in-fensible state, wherein they had put him, Extasse This last History is given as a crafty Trick of the Bonzees, but it demonstrates, as well as the first, the Belief which these People have, that there may daily spring up some new God, and the Inclination which they have to take extream Stupidity, for a beginning of

of the Kingdom of SIAM.

the Nircupan.

Part III.

Sommons Codom being difingaged, by the Alms-deeds which I have mentioned, from al! the Bands of Life, devoted himself to Fasting, to Prayer, and to the other Exercises of the perfect Life: But as these Practises are possible only to the Talapoins, he embraced the Profession of a Talapoin; and when he had heaped up his good works, he immediately acquired all the Priviledges thereof.

He found himself endowed with so great a Strength, that in a Duel he van-quilled another man of a consummated Vertue, whom they call Pra Sonane, and who doubting of the Perfection whereunto Sommona-Codom was arrived, challenged him to try his Strength, and wasvanquisht. This Pra Souve is not the fole God, or rather the sole perfect Man, which they pretend to have been contemporary with Sommona-Codom. They name feveral others, as Pra Ariaferia, of whom they report that he was Forty Fadoms high, that his Eyes were three and a half broad, and two and a half round, that is to fay, less in Circumference than Diameter, if there is no fault in the Writing from whence I have taken this Remark. The Stametes have a time of Wonders, as had the Agoptians and the Greeks, and as the Chinefes have. For Instance, their principal Book, which they believe to be the work of Sommons-Codom, relates, that a certain Elephant had Three and thirty Heads, that each of its Heads had seven Teeth, every Tooth seven Pools, every Pool seven Flowers, every Flower seven Leafs, every Leaf seven Towers, and every Tower seven other things, which had each feven others, and these likewise others, and always by seven; for the numbers have always been a great Subject of Superstition. Thus in the Alcoran, if my Memory deceives me not, there is an Angel with a very great number of Heads, each of which hath as many Mouths, and every Mouth as many Tongues, which do praise God as many times every day.

Besides corporal strength, Sommona-Codom had the power of doing all sorts of Miracles. For example, he could make himself as big and as great as he pleas'd: and on the contrary, he could render himself so little, that he could fteal out of fight, and ftand on the head of another man, without being fele either by his weight, or perceived by the Eyes of another. Then he could an-nihilate himself, and place some other man in his stead: that is to say, that then he could enjoy the repose of the Nireupan. He suddenly and perfectly underflood all the things of the World: He equally penetrated things past and to

come, and having given to his body an entire Agility, he eatily transported himself from one place to another, to preach Vertue to all Nations.

He had two principal Disciples, the one on the right Hand, and the other on the lest: they were both plac'd behind him, and by each other's side on the Altars, but their Statues are less than his. He that is plac'd on his right Hand is called Pra Magla, and he that is on his less than is called Pra Scaripont.

Belied by the County and the transfer of the Altars, but there is the place of the Altars had been also been seen as a present a second or the Altars. hind these three Statues, and on the same Altar, they only represent the Officers within the Palace of Sommona Codom. I know not whether they have Names. Along the Galleries or Cloysters, which are sometimes round the Temples, are the Statues of the other Officers without the Palace of Sommona Codom. Of

dice. They all expect other men, who ought to merit Altars, like those to whom they have already confecrated fome; to the end that every one may have the Field free to pretend to the supream Vertue. They all suppose that the Planets, the Mountains, the Rivers, and particularly the Ganges, may think, speak, marry and have Children They all relate the ridiculous Metempsychoses of the men whom they adore, in Pigs, Apes and other Beafts. Abraham Roger in his Book of the Religion of the Bramins relates, that the Pagans of Paliacata, on the Coast of Coromandel, do believe that their Brama whom they adore, was born almost, as some Balie Books do say Sommona Codom was born, viz. of a Flower, which was sprung from the Navel of an Insant, which, they say, was a leaf a Tree in the form of an Infant biting its Toe, and swimming on the Water, which alone subsisted with God. They take no notice that the Leaf-Infant, subsisted too: and according to Abraham Roger, they in this Country believe in God, but in a God which is not adored: and without doubt he has with as little ground advanced, that others have writ that the Siamefes believe a God.

The Fables Codom.

'Tis no fault of mine that they gave me not the life of Sommona Codom translawhich the Sia- ted from their Books, but not being able to obtain it, I will here relate what meles relate of was told me thereof. How marvellous soever they pretend his Birth has been, they cease not to give him a Father and a Mother. His Mother, whose Name is found in some of their Balie Books, was called, as they say, Maha Maria, which feems to fignifie the great Mary, for Maha fignifies great. But it is found written Mania, as often as Maria: which proves almost that these are two words Manya, because that the Siameses do confound the n with the r only at the end of the words, or at the end of the Syllables, which are followed with a Confonant. However it be, this ceases not to give attention to the Missionaries. and has perhaps given occasion to the Siameses to believe, that Jesus being the Son of Mary, was Brother to Sommona Codom, and that having been crucified, he was that wicked Brother whom they give to Sommond Codom, under the Name of Theoretat, and whom they report to be punished in Hell, with a Punishment which participates fomething of the Crofs. The Father of Sommond Codom Was, according to this same Balie Book, a King of Teve Lanca, that is to say, a King of the samous Colon. But the Balie Books being without Date, and without the Author's Name, have no more Authority than all the Traditions, whose Origin is unknown. This now is what they relate of Sommona-Codom.

Tis faid, that he bestowed all his Estate in Alms, and that his Charity not

being yet latisfied, he pluck dout his Eyes, and flew his Wife and Children, to give them to the Talapoins of his Age to eat. A strange contrariety of Idea's in this Peoples who prohibit nothing to much as to kill, and who relate the most execrable Parricides, as the most meritorious works of Sommona Codom. Perhaps they think that under the Title of Property a Man has as much Power over the Lives of his Wife and Children, as to them it feems he has over his own: For it matters not if otherwise the Royal Authority prohibits particular Siame is from making use of this pretended Right of Life and Death over their Wives, Children and Slaves; whereas it alone exerts it equally over all its Subjects, it may upon this Maxim of the despotic Government, that the Life of the Sub-

jects properly belong to the King.

The Siameses expect another Sommona Codom, I mean another miraculous man like him, whom they already name Pra Narotte, and whom they suppose to have been foretold by Sommona Codom. And they before-hand report of him, that he shall kill two Children which he shall have, that he will give them to the Talapoins to eat, and that it will be by this pious Charity that he will consummate his Vertue. This expectation of a new God, to make use of this Term, renders them careful and credulous, as often as any one is proposed to them, as an extraordinary Person; especially if he that is proposed to them, is entirely stupid, because that the entire Stupidity resembles what they represent by the Inactivity and Impaffibility of the Nireupan. As for example, there appeared some years since at Siam, a young Boy born dumb, and so stupid, that he feemed to have nothing humane but the Shape: yet the Report spread it self 138 Pra Mogla they report, that at the request of the damned he overturned the Earth, and took the whole Fire of Hell into the hollow of his Hand: but that defigning to extinguish it, he could not effect it, because that this Fire dried up the Rivers, inflead of extinguishing, and that it confumed all that whereon Pra Mogla placed it: Pra Mogla therefore went to befeech Pra Ponti Tchaou, Or Sommona-Codom, to extinguish Hell Fire: but though Pra Ponti Tchaon could do it, he thought it not convenient, because, he said, that men would grow too wicked, if he should destroy the Fear of this Punishment.

But after that Pro Pouti Tebaon was arrived at this high Vertue, he ceased not to kill a Mar, or a Man (for they write Mar and Man, though they pronounce always Man) and as a Punishment for this great fault, his Life exceeded not Eighty years, after which he died, by disappearing on a sudden, like a Spark

which is loft in the Air.

The Man were a People Enemies to Sommons Codom, whom they called Paga Man; and because they suppose that this People was an Enemy to so holy a Man, they do represent them as a monstrous People, with a very large Visage, with Teeth horrible for their Size, and with Serpents on their Head instead of

One day then as Pra Pouti Tebaon eat Pig's flesh, he had a Chollick fit which killed him: An admirable end for a man fo abitemious: but it was necessary that he died by a Pig, because they suppose that the Soul of the Man whom he flew, was not then in the Body of a Man, but in the Body of a Pig: as if a Soul could be efteemed, even according to their Opinion, the Soul of a Man, when it is in the Body of a Pig. Bur all these inventers of Stories are not so

attentive to the Principles of their Doctrine. Sommona Codom before his Death, ordered that fome Statues and Temples should be Confecrated to him, and fince his Death he is in that State of repose, which they express by they word Nirenpan. This is not a place but a kind of Being: for to speak truly, they say Sommons Codom is no where, and he enjoys not any Felicity: he is without power, and out of a condition to do either Good or Evilunto Men: expressions which the Portugueses have rendered by the word Annihilation. Nevertheless on the other hand the Stameses do effeem Summerna-Codom happy, they offer up Prayers unto him, and demand of him whatever they want: whether that their Doctrine agrees not with it felf; or that they extend their worship beyond their Doctrine: but in what Sense soever they attribute Power to Sommona-Codom, they agree that he has it only over the Siameles, and that he concerns not himself with other People, who adore other

That it is probable that Sommona-Codom never has

As therefore they report nothing but Fables of their Sommona-Codom, that Men besides him. they respect him not as the Author of their Laws and their Doctrine, but at most as him who has re-established them amongst Men, and that in fine they have no reasonable Memory of him, it may be doubted, in my Opinion, that there ever was such a man. He seems to have been invented to be the Idea of a Man, whom Vertue, as they apprehend it, has rendered happy, in the times of their Fables, that is to fay beyond what their Histories contain certain. And because that they have thought necessary to give at the same time an oppofite Idea of a Man, whom his wickedness has subjected to great Torments, they have certainly invented that Thewestar, whom they suppose to have been Brother to Sommona Codom, and his Enemy. They make them both to be Talapoins, and when they alledge that Sommona Codom has been King, they report is, as they declare he has been an Ape and a Pig. They suppose that in the several Transmigrations of his Soul he has been all things, and allways excellent in every kind, that is to say he has been the most commendable of all Pigs, as the most commendable of all Kings. I know not from whence Mr. Gervaile judges that the Chineses pretend that Sommona Codem was of their Country: I have seen nothing thereof in the Relations of China, but only what I have spoken concerning Chekia or Chaka.

The Life of Theoretat was given me translated from the Baly, but not to interrupt my discourse, I will put it at the end of this Relation. Tis also a Texture of Fables, and a curious specimen of the thoughts of these men, touching the Vertues and Vices, the Punishments and Rewards, the Nature and the

Part III. of the Kingdom of SIAM.

Transmigrations of Souls.

I must not omit what I borrow from Mr. Harbelot. I have thought it neces A conjecture fary to confult him about what I know of the Siamese; to the end that he neight upon the Etyobserve what the words which I know thereof, have in common with the molegy of Arabian, Turkish and Persian: and he informed that Summy, which must be produced the summer of Codem Constitution of Codem Codem Constitution of Codem Codem Constitution of Codem nounced Souman, figuifies Heaven in Persian, and that Codum, or Codom, figuifies Language the Ancient in the fame Tongue; fo that Sommona Codom feems to fignifie the evernal, Baly may be. or uncreated Heaven, because that in Persian and in Hebrew, the word which fignifies Ancient implys likewise uncreated or eternal. And as touching the Baly Tongue, he informed me, that the ancient Persian is called Pahalevi, or Pahali, and that between Pahali and Bahali the Persians make no Difference. Add that the word Post, which in Persas fignifies an Idol, or falle God, and which doubt-less fignified Mercury, when the Persass were Idolaters, fignifies Mercury amongst the Siameses, as I have already remark'd. Mercury, who was the God of the Sciences, feems to have been adored through the whole Earth; by reafon doubtless that Knowledge is one of the most effential Attributes of the true God. Remarks which may hereafter excite the curiofity of the learned men, that thall be defigned to travel into the Eaft.

But I know not whether to this hour it is not lawful to believe that this is a It feems to proof of what I have faid, that the Ancestors of the Siameses must have adored prove that the proof of what I have faid, that the Americas of the sameless multi have another research the Heaven, like the ancient Chinefes, and as perhaps the ancient Perfans did, worthing of the and that having afterwards embraced the Doctrine of the Metamffechaft, and Chinefes is forgot the true meaning of the name of Sommona Codom, they have made a man sim than the of the Spirit of Heaven, and have attributed unto him all the fables that I have Opinion of the related. Tis a great Art to change the belief of the People, to leave unto Metemplychofis. them their ancient words, by cloathing them with new Idea's. Thus, it may be, that the Ancestors of the Siameses have thought that the Spirit of Heaven ruled the whole Nature, though the modern Siameses do not believe it of Sommona-Codom: they believe on the contrary, as I have faid, that fuch a care is opposite to the supream felicity. They believe also that Sommona Codom has sinned, and that he has been punished, at the time that he was worthy of the

Nircupan, because they believe the extream virtue impossible. They believe

that the worship of Sommona-Codom is only for them, and that amongst the other

Nations there are other men, who have render'd themselves worthy of Altars,

and which those other Nations must adore. All the Indians in general are therefore perswaded, that different people What is the must have different Worships, but by approving that other People spirit of the have each their worship, they comprehend not that some would exterminate Faith of the theirs. They think not like us that Faith is a Virtue: they believe because Submission they know not how to doubt; but they perswade not themselves that there is a which they Faith and Worship which ought to be the Faith and the Worship of all Nati- have to their ons Their Priefts preach not that a Soul shall be punished in the other world, Traditions, for not having believed the Traditions of his Country in this, because they understand not that any of them denies the Fables of their Books. They are ready to believe whatever is told rhem of a foreign Religion, how incomprehenfible foever it be: but they cannot believe that their own is false: and much less can they refolve to change their Laws, their Manners, and their Worship. One had better to show them the contrarieties and groß Ignorance in their Books: they do fometimes agree herein, but for all this they reject not their Books; as for some fallity we reject not every Historian, nor every Physical Book. They believe not that their Doctrine has been dictated by an eternal and infallible Truth, of which they have not only the Idea; they believe their Doctrine born with the man, and written by some men, which to them appear to have had an extraordinary knowledge, and to have led a very innocent life: but they believe not that these men have ever sinned: nor that they could be ever deceived. As they acknowledge no Author of the Universe, so they acknowledge no first Legislator. They erect Temples to the Memory of cer-

tain men, of whom they believe a thousand Fables, which the superstition of their Ancestors have invented in the course of several Ages: and this is what the Portugueses have called the Gods of the Indies. The Portugueses have thought that what was honoured with a Publick Worship, could be only a God: and when the Indians accepted this word God for those men, to the Memory of whom they confecrate their Temples, tis that they understand not the force thereof.

That the worflip of the Siar receive more different Interpretations than exterior Worflip.

Statues have not that they always been the Marks of a Divine Honor. The Greeks and the Romans have erectnot that they not that they ed them, like us, to Persons yet living, without any design to make them Gods. The Chineses do proceed further, and they not only consecrate Statues to some Magistrates yet living, but they erect unto them some sorts of Temples, and facred Edifices: They establish to them a Worship accompanied with Protestations, Perfumes and Lights; and they preserve certain things of their Apparel as Relicks: though it cannot be thought that they respect these Magistrates, paret as reflects: thought it cannot be thought that they respect their magnitudes, yet living as Gods, but as men very much inferior to the King of China their Mafter, of whom they make no Divinity. There are feveral Christian Princes which are ferved upon the Knee, and the Deputies of the third State speak to the King only in this Posture. We give Incense to particular Persons in our Christian and the Children de house their Direct with more and the Children de house their Direct with more and the contraction. the King only in this Politie. We give inceme to particular Periods in our Churchess, and the Chriftians do honor their Princes with many and great Marks of exterior Worship. Thus the exterior Worship of the Indians is not a proof that they acknowledge, at least at present, any Divinity 5 and hitherto we ought rather to call them. Atheists than Idolaters. But when they offer Sacrifices to others than to God, and they joyn Vows to render themselves propitious, we cannot excuse them of Idolatry: for in having entirely forgotten the Divinity, they only are greater Idolaters, when they terminate their Worship to what is not God, and that they make it the sole Object of their Religion.

#### CHAP. XXV.

Diverse Observations to be made in preaching the Gospel to the Orientals.

That our Be- Rom what I have faid concerning the Opinions of the Orientals, it is easile life Canadalizes to comprehend how difficult an enterprize it is to bring them over to the the Orientals Christian Religion; and of what consequence it is, that the Missionaries, which in teveral preach the Gofpel in the East, do perfectly understand the Manners and Belief one must not of these People. For as the Apostles and first Christians, when God supported preach to them their Preaching by fo many wonders, did not on a fudden discover to the Heawithout cauti-thens all the Mysteries which we adore, but a long time conceal'd from them, on, if one has and the Catechumens themselves, the knowledge of those which might scandanot the gift of and the Catechumens themselves, the knowledge of those which might scandanot the gift of lize them; it seems very rational to me, that the Missionaries, who have not Missales. the gift of Miracles, ought not prefently to discover to the Orientals, all the Mysteries nor all the Practices of Christianity. "Twould be convenient, for example, if I am not militaken, not to preach unto them, without great caution, the worthipping of Saints: and as to the knowledge of Jefus Chrift, I think it would be necessary to manage it with them, if I may so say, and not to speak to them of the Mysterie of the Incarnation, till after having convinced them of the Existence of a God Creator. For what probability is there to begin with perswading the Siameses to remove Sommona-Codom, Pra Mogla, and Pra Saribout from the Altars, to fet up Jefus Christ, St. Peter and St. Paul, in their flead? Twould not perhaps be more proper to preach unto them Jefus Christ crucified, till they have first comprehended that one may be unfortunate and innocent; and that by the rule received, even amongst them, which is, that

the Innocent might load himself with the Crimes of the Guilty, it was necessary that a God should become Man, to the end that this Man-God should by a laborious life, and a shameful, but voluntary Death satisfie for all the Sins of men: but before all things it would be necessary to give them the true Idea of a God Creator, and juftly provoked against men. The Eucharist after this will not scandalize the Siameses, as it formerly scandalized the Pagans of Europe: forafmuch as the Siamefer do believe that Sommona Codom could give his Wife and Children to the Talapoins to eat.

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of the Kingdom of SIAM.

On the contrary, as the Chineses are respectful towards their Parents even to That the reada feruple, I doubt not that if the Gospel should be presently put into their Hands ingot the Herbey would be scandalized at that place, where when some role. I Chair and you support when some role I Chair and you when some role is the support of they would be feandalized at that place, where when fome told J. Chrift that ought to be his Mother and his Brethren asked after him, he answered in such a manner, permitted to that he seems so little to regard them, that he affected not to know them. They them only would not be lefs offended at those other mysterious words, which our divine with Caution. Saviour spake to the young Man, who desired time to go and bury his Parents. Saviour pake to the young Man, who defired time to go and bury his Parents. Let the dead, faith he, bury the dead. Every one knows the trouble which the Japponneles expressed to St. Francis Xavier upon the Evernity of Damnation, not being able to believe that their dead Parents should fall into so horrible a Misfortune, for want of having embraced Christianity, which they had never heard of. It seems necessary therefore to prevent and mollisse this thought, by the means which that great Apostle of the Indies used, in first establishing the Idag of an amington all wide and mollisse the Author well read. the Idea of an omnipotent, all-wife, and most just God, the Author of all good, to whom only every thing is due, and by whole will we owe unto Kings, Bi-fhops, Magistrates, and to our Parents, the Respects which we owe them. These Examples are sufficient to show with what precautions it is necessary to prepare the minds of the Orientals, to think like us, and not to be offended with most of the Articles of the Christian Faith.

The Chineses do not less respect their Teachers than their Parents; and this "Tis necessary fentiment is fo well established amongst them, that they chastise the Tutor to to speak to the the Prince, the prefumptive Heir of the Crown, for the Faults which that with an effective Prince commits; and that there are some Princes, who being made Kings, have of their Legi-revenged their Tutors. The Indians do likewise greatly honour the Memory of Idaots. those, whom they believe to have preach'd up Virtue efficaciously: they are those, whom they have judged worthy of their whole Worship; and they take Offence that we are scandalized thereat. Could we, say they, do less for those, who have preached unto us so holy a Doctrine? Father Hierom Xavier, a Portra gues Jesuit, having published at Agra a kind of Catechin, under the Title of the Mirrour of Truth: A Persan of Ispahan named Zinel Abedin wrote an answer thereunto, under the Title of the Mirrour repuls'd, which the Congregation de Propaganda fide thought necessary to have confuted: and it committed the care thereof to Eather Philip Gnadaguol, of the Order of the Regular Minimes. But he spake so unworthily of Mahamet, that his consutation proved ineffecting al; because that the Mission of Ispahan dar'd never to publish it : and this Misfion desiring Father Guadagnol somewhat to moderate his Satyr, this good Father running into the other extream, made a Panegyrick upon Mahomet, which drew upon him a Reprimand from the Congregation de propaganda. Tis therefore necediary in these forts of matters to observe a wise Moderation, and to speak respectfully, at least to the Indians, of Brama, Sommona Codom, and all the rest, whose Statues are seen on their Altars. 'Tis necessary to agree with them that these men have had great natural lights, and intentions worthy of Praise; and at the same time to insinuate to them, that being men, they are deceived in several things important to the evernal Salvation of Mankind, and principally in that they have not known the Creator.

But next to this Blindness, which it is necessary to demonstrate inexcusable, That these why should we not praise the Legislators of the East, as well as the Greek Legis Law givers flators, for that they have applied themselves to inspire into the People, what in some thought to them has appeared most virtuous, and most proper to keep them in Peace and Innocence? Why should we blame them for the Fables, which a long succeffion of Ages full of Ignorance has invented upon their account, and of which

probably they have not been the Authors: confidering that when they had spoken magnificently of their persons, they had only done what is pardonable in almost all other Legislators? They have the merit of haveing known before the Greeks some intelligent Beings superior to man, and the Immortality of the

That the Doctrine of Metempfychofis may be ex-

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But if they have believed the Metempschosis, they have been thereto induced by apparent Reasons. Ignoring all Creation, and establishing moreover that a Soul cannot proceed from a Soul, and that there could not be an infinite number may be ex-cuted by Phy- of Souls; they were forced to conclude that the infinite number of the living, ented by Physor Souns; they were rorced to conclude that the immitte number of the living, ficial Resions. Which had fucceeded one another in the World, during all this shaft Eternity, which they supposed that the World had already lasted; could not be animated by this finite number of Spirits, unless they had passed an infinite number of times from one body to another. The Opinion of the Metempschoss is therefore founded on several Principles which we receive; and certainly contains only one Falling, which is the presented Immossibility of the Creation. ly one Fallity, which is the pretended Impossibility of the Creation.

As to the natural confequences of this Doctrine, the Prohibition of Meats is tick Reafons. very wholfom in the Indies, and the Horror of Blood would be every where useful. The great Barcalon, elder Brother to the first Ambassador of Siam, ceafed not to reproach the Christians for the bloody Madness of our Wars. On the other hand, the Opinion of the Mitempschoft comforts men in the Misfortunes of Life, and fortifies them against the Horrors of Death, by the Hopes which it gives of reviving another time more happily and because that men which it gives of reviving another time more happiny: and because that men are credulous in proportion to their defires, its observed that those, who esteem themselves the most unhappy People in this Life, as Eunuchs, do strongly adhere to this hope of another better Life, which the Doctrine of the Metempschosis has given to good men.

The fear of the But if Error can be advantageous, what other can be fo much as that Fear of dead Parents Children for their dead Parents. Confucius makes it the only Foundation of all excuted by Policy. And indeed it establishes the Peace of Families, and of King-litick Reasons, good Policy. And indeed it establishes the Peace of Families, and of Kingdoms: it bends men to Obedience, and renders them more submissive to their Parents and to their Magistrates; it preserves good Manners and the Laws. These People comprehend not that they can ever abandon the Opinions and Customs, which they have received from their Fathers, nor avoid, if they did, the Refentment which, in their Opinion, their Ancestors would express thereat. The Chinese Doctrine has no other Paradice, nor Hell, than this Republic of the dead, where they believe that the Soul is received at the departure out of this Life, and where it is well as ill experienced with the Souls of its Ancestore. this Life, and where it is well or ill entertained with the Souls of its Ancestors, according to its Vertues or its Vices.

This fear can—Tis upon this confideration, that the Lawful Kings of China have abstained fes the stability from making any Innovations on the Government. None but Usurpers dare ty of the Laws ty of the Laws to do this, not only by the Right which force gives them, but because that not of China. being descended from the Kings their Predecessors, they have not thought any

respect due to their Establishments. Yet it has its Neverthelefs as all errors have bad fides, Confucin being ask'd by one of his Inconvenien Difciples, whether the dead had any fense of the Respects which their Children ces. paid them, answer'd, That it was not fitting to make these over-curious forts of Questions; that by answering negatively, he fear'd to abolish the respect of The ralagoins Children for their dead Parents, and by answering affirmatively, he dreaded must not be thought know the exciting the best Persons to kill themselves, to go and joyn their Ancestors.

Twould also be, I know not what Injustice to treat the Talapoins as Impostors, refled Impost and interessed Persons. They deceive only because they are first deceived: they are not more cunning, nor more intetested than the Seculars When they That it is net preach to the Seculars to befrow Alms upon them, they think their Preaching the Orientals the Orien

to use all the Altar.

Lam therefore convinced, that the true fecret of infinuating into the mind of which our Re-these People, supposing one has not the Gift of Miracles, is not directly to conligion and the tradic them in any thing, but to show them, as at unawares, their Errors in the example of the Saintees and officially in the Mathematicks and Anatomy, wherein they are example of the Christians Sciences, and especially in the Mathematicks and Anatomy, wherein they are on permit us.

most palpable: 'Tis to change the Terms of their Worship the least Imaginable, by giving to the true God, either the Name of Soveraign Lord, or that of King of Heaven and Earth, or some other Name which signifies in the Language of the Country, what is most worthy of Veneration, as the word Pra in Siamese: But at the same time it be necessary to instruct them to annex unto these Names the intire Idea of the Deity, an Idea so much the more easie to receive, as it only heightens and embellishes the mean Idea's of the salse Gods. Gott which now lignifies God in German, was anciently, according to Vossius, the Name of Mercury, who feems to have been every where adored. Certainly the words Theos and Deus have not always fignified in Greece and Italy the God, which we adore. What then have the Christians done? They have accepted these Names in the stead of the inestable Name of God, and they have explainand there is mental of the mentale Name of God, and they have expanded them after their manner. From the Knowledge of an eternal, fpiritual God and Creator, it would be easie to defcend to the Eaith of Jefus Chrift: and these People would make no Opposition, if first they saw themselves cured of some sensible Ignorance. The Spirit of man is such, that he almost implicitly receives the Opinions of him, who has wishly convinced him of his first Errors. Thoroughly convince a fick person that the Remedy which he uses is not good, and he will immediately take yours.

Part III.

But in my opinion it is one of the most important Articles of the conduct of How the Misthe Miffionairies, to accommodate themfelves entirely to the fimplicity of the fonaites ought Manners of the Orientals, in their Food, Furniture, Lodging, and whatever decommodate the Bules of the Orientals, in their Food, Furniture, Lodging, and whatever determine the Bules of the Orientals. the Rules of the Talapains preferble, wherein they have nothing contrary to elevesto the Christianity. The example of Father de Nobilibus the Jesuit is famous. Being in simple cultoms Mission to the Kingdom of Madura in the Indies, he refolved to live like a Jogue of the Oriental State of the Christianity. that is to fay, like a *Bramin* of the Woods; to go with his Feet naked, and his caus; in what Headbare, and his Body almost naked, in the forching Sands of this Country, and Religion. to nourish himself with that excess of frugality, which appear'd intollerable : and it is reported that by this means he converted near forty thousand persons. Now as this exact imitation of the Indian severity is the true way to make some

Conversions, so the further one should remove therefrom, the more one should attract the hatred and contempt of the Indians. It is necessary to learn in these Countries, to make a shift with whatever they do, and not to sustain the neceffities, or rather the superfluities of these Countries, if one would not cause Jealousse and Envy to some Nations, the particular persons of which conceal their fortune, because they can preserve it only by hiding. The less the Missionaries appear settled, the more the Mission is established, and the better it promotes Religion. As the East is not a Country of settlement for private perfons, it would be an injury to think to accomplish it: the Natives of the Country do not themselves enjoy any solid fortune; and they would not fail to pick quarrels with those that should appear richer than them, to deprive them of their Riches. Moreover, the Orientals feem to have no prejudice for any Religion; and it must be confessed, that if the beauty of Christianity has not convinc'd them, it is principally by reason of the bad opinion, which the Avarice, Treachery, Invafions, and Tyranny of the Portugueles, and some Christians in the Indies, have implanted and rivetted in them. But it is time to conclude this Relation with the Life of Thevetat, the Brother of Sommons Codom, and with all the other things that I have promifed.

The End of the First Tomes

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## Historical Relation

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## KINGDOM

O F

# SIAM.

BY

Monsieur DE LA LOUBERE,

Envoy Extraordinary from the FRENCHKING, to the KING of SIAM, in the years 1687 and 1688.

Wherein a full and curious Account is given of the Chinese Way of Arithmetick, and Mathematick Learning.

#### T O M E II

Illustrated with Sculptures.

Done out of French, by A. P. Gen. R. S.S.

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## READER.

Have almost no other hand in this Volume, than the collecting the Pieces thereof. Some are Translations, which are not mine, in some others I only have held the Pen, whilst the substance thereof was dictated unto me. If there are any which appear too foreign to a Relation of Siam, they are not fo to my Voyage; the History of which would perhaps have pardon'd me, if I had undertaken to do it: and much less to the general Knowledge, which I have endeavoured to give of all the East, thereby to make known the Genius of the Siameses. However, I crave Pardon for two or three Pieces at most, which will not perhaps displease in themselves, and which I have given to fatisfie the Curiofity of fome Perfons, whom I honor.

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THE

# LIFE

THE

OF

## THEVETAT,

Translated from the Balic.

Firer the birth of Ponti Sat \*, who by his good works in process of the names time arrived at the Nirenpan, his Father, King Tronfontout, confult-of the names to the Soothsquers to know what would betide him, and the fortune that a Son would have, at whose Nativity there had appeared my Opinion of the name that it is not proved in the sound of the state of the sound of the sound

His Relations, to the Number of Ten Thoufand, understanding by the An-

fwer of the Soothfayer, that the Universal Demesne of this whole World, or

the Nircupan were afcertained to this young Prince, refolv'd amongst themselves every one to give him, when he should be a little advanced in years, one of their Sons to make up his Train; and so they did. When therefore this Prince, after the Repentance of some seven years, which he performed in the Woods, was become worthy of the Nireapan, a great many of these young men, whom we mentioned, which were of his Retinue, turn'd Talapoins with him; but amongst mentioned, which were or his **Retinue**, thin't a tangerin with him; but announce this great Company there were fix, who though they were his Relations, and in his Train, would not yet follow him. We will recite the Names thereof, by reafon that in the fequel we final fpeak only of them. The first is called Patria, the fecond Anourout, the third Anoun, the fourth Packon, the fifth 2nd.

\* The Siame mila, the fixth \* Thevetat\* and it is of this last that we write the History. One the treport they had a long of the siame mila, the fixth \* Thevetat\* and it is of this last that we write the History. One ter report that day the Fathers of these six young Princes being accidentally met together, after Threna was having discoursed a long time about several indifferent things, one of them observed to the rest that not any of their Sons had followed the Prince to turn served to the rest that not any of their Sons had followed the Prince to turn or sommonation, by this Talapoin; and they faid amongst themselves, is it because that not any of our History he or Children will turn Talapoins, that we shall upon this account cease to be his Rely is his Relations? Hereupon therefore the Father of Anourout, one of these fix young tion.

Princes, who was the Successor of Taousout, faid to his Son, that though he was of Royal Blood, yet if Sommona-Codom would receive him into his Company as a Talapoin, he would not hinder him, though some Persons of his Qua-

lity would not follow this Example.

Prince Anourous being accustomed to his Pleasures, and to have whatever he defired, understood not what this word of refusal, No, did mean. One day as thefe fix young Princes diverted themselves at Bowls, and played for Confects for a Collation, Anonrout having loft, fent a Man to his Mother, to intreat her to fend him fome Confects, which she did: having eaten them, they played for a fecond Collation, then a third and a fourth; and his Mother fent him some Confects, till all were gone: But as Anourous still sent to have more, his Mother then told the Servant: No, there are no more. Which being related to the Son, and the Son not understanding what these words, No there are no more, did fignify, having never heard them spoken, thought that his Mother meant that the had yet others more excellent, the name of which must be these words, No there are no more. He therefore sent back his Servant to his Mother, desiring her to send him some of the Confects No there are no more; his Mother perceiving hereby that her Son understood not these words, No there are no more, resolved to explain them to him. She took a great empty Dish, covered it with another, and gave it to the Servant to carry to her Son. But then the Genij of the City Konbilepar reflecting on all that had passed between Prince Anourous and his Mother, and knowing that the Prince understood not these words, No there are no more, (because that formerly in another Generation he had Charitably given to the Talapoins his Portion of Rice, and had demanded and defired, that in process of time, when he should come to revive again in this World, he might not understand what these words, No there are no more, did mean; neither did he understand or know the place where the Rice did grow ) they faid that it was necessary speedily to assemble themselves with the other Genij, to consult what was proper to be done, because that if Anouvont found the Plate empty, their head as a Punishment would be broke in seven nerable, and their care is to pieces. It was therefore refolved that they would fill it with Confects brought from Heaven, which they did. The Servant who carried the Plate, having laid it at the place, where these young Princes were diverting themselves, Anourout, who only expected this to pay his Debt to his Companions, ran to the Plate and uncovered it, and found it as before, full of Confects, but fo excellent that the whole City was perfumed with their Odor: The excellent tafte which they found in these Confects, diffused it self through their whole Body-The Plate was foon empty, and hereupon Anourous reflecting on the goodness of these Confects said unto himself: It must needs be that my Mother has scarcely loved me till now, feeing that the never gave me the Confects, No there are no

recompence and punish.

more. Returning home, he went to ask his Mother, whether she loved her Son-His Mother, who paffionately loved him, was exceedingly furprized at this question, and answered him that the loved him as her own Heart, and Eyes. And why, if what you say is true, have you never given me the Confects, No there are no more. For the future I befeech you to give me no other: I am resolved to eat only of thefe. His Mother, aftonihed to hear her Son feeth thus, addirefted her felf to the Servant, who had carried the Plate, and asked him fecretly, whether he faw any thing therein, to whom he answered yes, that he faw the Dith filled with a kind of Confects, which he had never feen before and then the Mother of Anourous comprehended the Mystery, and judged rightly that the Antient Merit of her Son had procured him these Confects, and that the Superior Genij had rendered him this good Office. Afterwards therefore when the Prince demanded the fe Confects of his Mother, the only took an empty Dish, covered it with another, and sent it him, and the Plate was al-

Tome II. of the Kingdom of SIAM.

ways found full as I have faid.

Anothrout understood not likewise the meaning of these words, to assume the Pagne or Talapoins Habit, and having one day defired his elder Brother Pattia to explain them to him, Pattia informed him what he knew, that to affiume the Tala-poins Habit, was intirely to shave his Hair and Beard, to sleep on a Hurdle, and to cloath himself with a yellow Pagne. Which Anourous understanding, he told his Brother that being accustomed to live at his ease, and to have all things at pleasure, he should find much difficulty to lead this Life: And Pattia replyed, feeing then my Brother that you will not refolve to turn Talapoin, confider which is belt: but also not to live Idly, learn to work and continue at my Father's House as long as you please. Anourout asked him what he meant by this word to Work, which he understood not: Patria then faid unto him, how can you know what it is to work, seeing that you neither know where nor how the Bicog group? One days, seeing that you neither know where nor how the Rice grows? One day indeed Quimila, Pattia, and Anourous discoursing together upon the Place where the Rice might grow, Quimila replyed that it growed in the Barn: Pattia, faid no, and afferted that it grew in the Pot: And Anourout told them both that they understood nothing, and that it grew in the Dish. The first having one day observed that the Rice was taken out of the Barn, thought it was there that it grew. The second had seen it taken out of the Pot, and its that which gave him occasion to think that it grew in the Pot: But the third who had never feen it otherwise than in the Dish, really believed that the Rice grew in the Dish, when one had a desire to eat: and thus all three knew nothing of the matter.

Anourous declared afterwards to the other two that he was not inclined to work, and that he chose rather to turn Talapoin: and he went to ask leave of his Mother. She refused him two or three times: but as he would not be denied, and as he continually preffed her more and more, she told him that if Pattia would turn Talapoin, the would permit him to follow him. Anourout went therefore to follicit his five other Companions to make themselves Talapoins, and they resolved to do it seven days after. These seven days being elapsed they went out of the City, with a great Equipage, seeming to go to divert themfelves in the Country. In their retinue they had a great many Mandarins mounted on Elephants, with a good number of Footmen. But principally they had in their Train a Barber by Profession, named Oubbali. Being attived at the Confines of the Kingdom, they fent back all their retinue except *Oubbali*: then they stript themselves of their Cloaths, folded them up very nearly, and put them into the hands of Oubbali, to make him a present thereof, telling him that he should return into the City, and that he had wherewithal to live at his ease the remainder of his days. Oubbali, very much afflicted to separate himself from these fix Princes, and yet not daring to contradict what they order'd him, after having taken his leave of them departed weeping, and took his road towards the Ciry, from whence they had fet out together. But it prefently came into his mind, that if he returned, and that the Parents of these young Princes should see the cloaths of their Children, they would have reason to suspect him of their death, and likewise to put him to death, not believing that these young

\* I suppose that this is a to the Text,

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Princes would have quitted fuch precious Habits to give them to him. Hereupon he hung up these Habits on a Tree, and returned to seek out these young Lords. So foon as they faw him, they demanded the reason of his return, and having declared it to them, he testified that he would continue with them, and assume the Habit of a Talapoin. These young Princes presented him then to Sommona Codom, befeeching him to give the Habit to him, rather than to them: for finding themfelves yet full of the Spirit of the World, and proud of heart, and willing to humble themfelves, they defired that Onbball, who was very inferior to them in the World, might be their Elder in Religion, to the end they might be obliged to respect him, and to yield to him in all things: the \* Rule, requiring that between two Talapoins the Eldest have all the Honours, remark which though the youngest be much the more Learned. Sommona-Codom granted them has inferted in their Request, and they assumed the Habit a little while after Oubbali. Being therefore entred into the time of Repentance, Pattia by his merit had a Cæleftial Heart, Eyes, and Ears; that is to fay he understood every thing, he knew the Hearts of others, he faw all things, and heard every thing, notwith-standing the distance and all obstacles. One day after Sommona-Codom had preached, Anourous was advanced to the degree of an Angel. At the same time Aanon a Talapoin, dear to Sommona-Codom, went to Sonda the first degree of Perfection. Packou and Quimila after having a long time exercised themselves in Prayer and Meditation, were advanced to be Angels. There was Theoretat alone that could obtain no other thing than a great strength, and the power of \* The Mira-doing Miracles \*. Sommona Codom being gone with his Talapoins to the City of Konsumpi, the In-

habitants came daily to make them prefents, fometimes to Sommona-Codom, that he is The Cometimes to Mogla and to Saribon, his two principal Favourites, one of which wetar: but it is fat on his Right hand, and the other on his Left: some to Kasop and Pattia,

nectflar to e others to Quimila and Packon, or to Anorous; but what is remarkable, no bovince to them dy prefented to Thevetat: and they spake no more of him than if he had never that the Mire been in the world, whereat he was extreamly intaged. Is it, said he, that I they attribute am not a Talapoin as well as the others? Is it that I am not of the Royal Blood to Theyerat are like them? Why has no one made any Present to me? He therefore resolved to do Evil, inftantly to feek out fome body that should present him, and to allure some and that those Distribute. The King of the City Provider was arrived to the first degree of of Jefus Christ Disciples. The King of the City Pimpisan, was arrived to the first degree of are for Good. Perfection, with One Hundred and Ten Thousand men, all Disciples of Sommona-Codom: and he had a Son as yet young, and who knew not what Evil was, Thevetat contriving to seduce this Son, to make use of him in his wicked defigns, went from the City of Pinmefan, to go to Rhacacreu, and affumed by the power he had, the shape of a little Infant, with a Serpent round each Leg, another round his Neck, and another round his Head. Besides this he had one, who embracing him on the left Shoulder, descended underneath the right Shoulder before and behind. In this equipage he took wing, and went through the Air to the City of Rachaeren. He lights at the Feet of Achat fatron, who was \* Just before that young Prince the Son of the King of the City of \* Pimmepifan, and who he faid Pimpi- feeing Thevetat after this manner, with his whole body twifted about with Serpents, conceived a great Terror thereat. Being affrighted at a thing fo strange, he asked Thevetat who he was, and Thevetat having told him his Name, and entirely confirmed him, re-affumed his first shape, that is to say his Talapoins Habit, and his Serpents disappeared. Achatasarron hereupon conceived a great esteem of Thevetat, and made him great Presents, an Honor which effected the ruine of Theoretat by the Pride he conceived thereat; for from that time he contrived the defign of making himself Master and Chief of his Brethren. He went therefore to Sommona Codom; he found him out who preached to the King, faluted him, approached him, and after fome discourse told him, that being already in a very advanced Age, it was not fit that for the future he should take fo much Pains, but that he ought to think of spending the rest of his days pleafantly and at his own Ease. I am, added he, ready to assist you to the utmost of my power, and as the care of fo many Religious overwhelms you, you may for the future discharge it upon me. This is the Language, which the extream

defire of feeing himself above all, did put into his Mouth. Sommona-Codom who knew him, refus'd and contemn'd his demand, whereat Thevetat was fo enraged, that he only plotted ways to revenge himself. He returned to the City of Rachacren to find out Achata fatron his Disciple, and perswaded him to get rid of his Father, the fooner to get upon the Throne, and afterwards to afford him the means of putting Sommona-Codom to Death, and of fetting up himself in his Head. Achatasatron then caused his Father to be put into a Dungeon loaded with Irons, and feized on the Throne: Thevetas expressed unto him his Joy, and defired him to remember the Promife he had made him. The new King prefently granted him 500 men armed with Arrows, to go and kill Sommona Codom. They found him walking at the Foot of a Mountain; and his fight alone impreffed in them fo much Fear and Respect, that there was not any one who dared to let fly an Arrow; they all remained immoveable, every one with their Bow bent. Sommona-Codom intreated them to tell him the Author of their Enterprize; and when they had informed him, he preached a Sermon unto them, at the end of which they arrived at the first degree of Perfection, and returned home. So foon as Theverat faw that they had miffed their blow, he went himfelf on the Mountain, and applied himself to roul down Stones to the bottom, defignedly to kill Sommona-Codom: and when he thought he had thrown down enough to kill him, he descended thence, and called him two or three times by his Name; Sommona Codom who had ascended the Mountain at one side, when Thevetat descended at the other, answered that he was at top: Thevetat presently re-mounted, and at the fame time Sommona-Codom, who knew him without feeing him, descended without being seen. Theyetat re-ascended again in vain, andhe died with rage. Mean while Sommona-Codom feeing himself thus perfecuted, faid unto himself, what Crime, what Sin have I committed? Now that I am at the heighth of perfection, that I have performed fo great a Penitence that I have preached fo much and taught fo holy a doctrine, yet they ceafe not to perfective me to kill me. And by thus examining himself he rememberd, that one day being drunk, \*he had hit a Talapoin with a little ftone which he had Sommona-Coflung, and which had drawn out a little blood, and he knew that he was to be down flus and is punished in five hundred Generations successively; that he had already been Hell.

punished in 499, and that this was the five hundredth: besides which, he had been a long time in Hell. Wherefore knowing moreover that if he permitted not Thevetat to do him some mischief, he should kill him with rage, and go into Hell after his death, he rather chose that a small shiver of a Flint which Theverat threw at him, and which dash'd in pieces against another, should wound him in the foot to draw out a little blood. 'Twas he that stretch'd out his foot to receive the blow, and thereby he appeased the anger of Thevetat, who for some time forgot the Resolution of killing him.

One day as Sommona-Codom went to beg Alms in the City of Rachacren, Thevetat being advertised thereof, procur'd the King to send his most mischievous Elephants to do him a mischief, if he did not retreat. Sommona Codom ceased not to continue his road with his Talapoins: and as they came near the Elephants, Aanon went before his Master, to secure him from the fury of the Elephants, by exposing himself, but they hurt no body.

At his departure out of the City, Sommona-Codom retird into a Pagod, where the people brought him to eat. He eat, and preached afterwards to all this multitude, which was come out to the number of Ten Millions of persons, to hear him: and he converted fourfcore and four Thousand, some of which went to the first degree, others to the second, others to the third, others to the fourth degree of Perfection. Several enlarged themselves on the Praises of Aanon, who loved his mafter fo dearly, as to expose his life for him. Whereupon Sommona Codom informed them, that this was not the first time Aanon had done it. Another time he faid unto them, when I was King of the Ong ('tis a kind of Bird) Anon being also an Ong, and my younger Brother, he saved my life by exposing his in my place. When the King Acharafaron had heard Aanon thus commended, for having exposed his life for his Master, he recalled the 500 men, which he had given to Theverat: and thus Theverat faw himself abandon'd

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by every one. He had leave to beg, but no body gave him wherewith to live: being reduced to the extremity of feeking a livelihood himself, he returned to Sommona-Codom, and offered him five Propositions, which he intreated him to grant. The first was, that if there were some Talapoins who would oblige themselves to live in the Woods, and sequester'd from the World, he oblige themselves to live in the Woods, and sequetter a from the World, he would permit them. The second, that those who would engage themselves to live only on Alms, might submit themselves thereto. The third, that he would grant the liberty of cloathing themselves poorly to such who would desire always to do it, and who would oblige themselves to be always contented with old Pagnes, patched and nafty. The fourth, that he would permit those which should defire it, to refuse all their life to have any other Convent or Lodging, than under a Tree, and in fine that they who would never eat Meet or Fish. than under a Tree; and in fine, that they who would never eat Meat or Fish, might deprive themselves thereof. Sommona Codom answer'd him, that it was necessary to leave to every one his own will, and to oblige no person to more than he would, or even than he could. Theverat rose up after Sommona-Codem's Answer, and cried aloud to all the Talapoins that were present; let all those that would be happy follow me: and immediately a Troop of ignorant persons, to the number of five hundred, deceived by the specious appearance of his false intentions, refolved to follow him, and exactly to keep the five things which he proposed. They had some devoto's which nourish d them, and which supply'd all their wants: although they knew that Thevetat had kindled the War amongst the Talopoins, by separating himself from his Master. When Sommon Godom saw that he took so wicked a Conduct, he endeavoured to reclaim him, by divers Sermons which he made to him, to convince him that there was not a greater Crime than this. Thevetat heard him very patiently, but without making any benefit thereby: for he briskly quitted Sommona-Codom. On the Road he met Aanon, who demanded Charity from door to door in the City of Rackacren, and told him that he had just quitted his Master, to live for the future after his own humor. Aanon told it to Sommona Codom, who replied, that he knew it very well, that he saw that Theverar was an unhappy wretch, that he would go into Hell. This, adds he, is exactly as Sinners do; they commit great Crimes, and this they call doing Good, and what is Good they call Evil. Virtuous Men do good without trouble, whereas it is a punifiment to the wicked; and on the contrary, Evil displeaseth the Good, and the wicked make a pleasure thereof. Knowing therefore the place and quarter where Thevetar was retir'd with his 500 Disciples, he sent Mogla and Saribont thither to bring them away. They found Theoretas preaching, and when he faw them, he thought that like him they had quitted their Mafter. Wherefore after his Sermon, he faid unto them: I know that when you were with Sommona Codom you were his two Favourites, and that he made you to fit one at his right hand, and the other at his left, I desire you to accept the same thing from me. Not to know him, and the better to cover their delign, they told him that they kind-ly accepted it, and feated themselves indeed at his sides. Then he intreated them to preach in his stead whilst he went to repose. Saribour preached, and after his Sermon all those 500 Talapoins arrived at the perfection of an Angel, rose up into the Air and disappear'd. Conkasi the Disciple of Theveras ran to wake him and tell him, what had past. I had well advised you not to trust them, faid he unto him: than he began to be vexed, and to such a degree, that he beat Conkali so as to make his Mouth to bleed. On the other hand, when the Talapoins, which were with Sommona-Codom, faw Moyla and Saribout return with their Company, they went immediately to acquaint their Mafter, and to express unto him the aftonishment wherein they were to see Mogla and Saribout return so well accompanied, after having seen them depart alone. Mogla and Saribont came also to salute their Master, and the new come Talapoins told Semmona Codom that Thevetat imitated him in all things. You very much deceive your felves, faid he unto them, to think that he does what I do: formerly indeed he Counterfeited me, but now he practifes the fame. Then his Disciples said unto him, we know our dear Master that Theoretat Counterfeits you at present, but that he has Counterseited you in times past we know nothing thereof, wherefore we defire you to explain it to us. He then open'd his mouth and faid, you know that heretofore being a Bird, but a Bird which fought his living fometimes in the Water, fometimes on the Land, Thevetat at the fame time was a Land-Fowl and had great Feet. After my example he would catch Filh, but he entangled his Neck in the Weeds, not being able to pluck it out, and died there. I remember also that I once was one of these little red Birds, which do eat the Worms of the Trees. Thevetat was a Bird of another fort, and he affected to nourish himself like me. I fought the Worms in the Trees, which have the heart included in the middle of the Trunck, and I sought out these trees in a great and spacious Forest, he sought the Worms in Trees without heart, but which have an appearance thereof; and his head was brussed as a punishment. Another time I was born a Rachass, and he was born a wild Dog. Now the Rachass do live only on the Elephants which they kill in the Woods, and the Dog of the Woods would ask like me, but he reapt the evil thereof; for the Elephants trampled him under their Feet and crussed him in pieces.

Another day Sommona Codom preaching to his Disciples, spake to them of Theverat, and faid unto them. Once I was one of the Land-fowl with great Feet, and he was Rachaft. In eating of meat he would fwallow a bone, which fticking in his Throat would strangle him. I had compassion on him, I drew the bone out of his Throat at the request he made me, confessing that what force soever he had used, yet he could not relieve himself. I entered therefore into his great Throat, which he open'd, and pluck'd out this bone with my Beak: and as he had promifed me a recompence, I only demanded of him fomething to eat, but he answered me, that having permitted me to enter into his Throat, and to come out fafe and found, was the greatest Favour he could how me. Another time I was a Stag, and Thevetat a Hunter. Going one day a Hunting, he climb'd upon a Tree, which bore the little Fruits which Stags do eat, and there made himself as it were a little Hutt, to keep himfelf close and conceal'd in, expecting his Prey : and as the Stag \* Pontifat was come \* 'Tis one of very near the Tree, Thevetat threw him some Fruits to entice him to approach the names of nearer: but the Stag Poutifat feeing these Fruits fall on either side, doubted of Sommona Cothe business, and observed the Hunter upon the Tree, to whom he faild twas down in vain to wait longer, that he would not approach him neater. Tis thus that Thevetat desires much.

Another time Thevetat was a Fisherman. Having one his Son whom he had with him, to carry unto his Wife the news of the prize he thought to catch, and orders to go immediately to quarrel with all her Neighne mought to catch, and orders to go immediately to quarter with all her Neighbours. She then took her little dog, and repaired prefently to the neareft, went into the house, and began to fcold at him and his Wife: from thence she went to another, and at last to them all. In the mean time Theoretas was looking after his Line which he could not get out, so that to have it he stript himfelf, laid his Cloaths on the bank of the River, threw himself into the water, and gave such an unhappy blow against the Tree, that he beat out borh his Eyes, The Passengers stole away his Cloaths: and the quarrel of his Wife with his Neighbours, cost him all the little Money he had, by a Suit which they brought against him for this injury. After this Sommona-Codom departed out of the City of Rachaeren to go to Savaii: he was there fick in a Convent where he lodged and at the fame time Thevetat was likewife fick of a differencer, which held him nine Months. He had an extream desire to see his Master Sommona-Codom, and he fignified it to his disciples, desiring them to do him the kindness to carry him to him. They asked him how he dared to think thereof, and what Good and Succour he could expect from him, after having perfecuted him fo much. 'Tis true, faid he unto them, that for the Good he has done me, I have only return'd him Evil; but that's no matter carry me to him, that sufficeth me. They obeyed him, and having laid him on an Hurdle, they fet out on the road, to feek out Sommona Codom. As they approach'd, the Disciples of Sommond-Codom ran to acquaint their Mafter, that Thevetat being fick came to visit him. I

know it, answered he, I know that he comes, but he shall not see me. Since that you refused him, reply'd the Disciples, the favour he demanded of you,

what the five ments of the Siamefes are. \* Perhaps it must be Lan, that is to fay Ten Millions, to fay Ten Millions of years : as in an Hundred Lec fignifies fimply an the Souls of

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touching the five Articles which he defired to observe, we have not hitherto feen him. Upon these words Sommona Codom faid unto them: Thevetat is a miferable wretch, who has always followed his own capricious humour, and never took care to keep the Rule, which I have taken so much pains to teach him, wherefore, though he comes purpofely to vifit me, and how good a mind soever he has thereunto, yet he shall not see me; because he has endeavoured to oppose me, and raise a division among my Disciples. As Thevetat was within a Mile of the Place, where Sommona-Codom was, his Disciples went again to advertife him thereof; and he ftill told them, I know it very well, but yet Thevetat hall not fee me. When Thevetat was within a half a mile of the City, the Disciples returned to acquaint Sommona-Codom: 'Tis true, faid he, yet he shall not see me. When Theverat was arrived at the Pool, which they call Bukoreni, near the place where Sommona-Codom was, the Talapoins went attain to Sommona Codom to tell him that he was near at hand; to which he reply'd, By this place how near foever he be yet he shall not fee me. Theverat being therefore come to this Pool, his Disciples set him on the ground on the bank of the water: and as he endeavoured to walk, his Feet funk, and entred into the Earth, and by little and little he funk up to the Neck, and then to the Chin. Seeing himfelf in this condition he began to recommend himfelf to Sommona-Goom, and offer himself to him, confessing that he was very perfect, very great; that he brought back Persons strayed out of the good way, as does a Groom, who takes care to beat his Horses, to correct them when they are milchievous: that he knew and understood every thing: that he was full of merit. He humbled himself, acknowledged the fault he had committed, and defired pardon. Mean while Sommona-Codom confidering on this wretch, faid unto himself, Why hast thou received him into thine house? Why hast thou given him the habit? or the maies Would it not be better to let him continue in the world? But no, reply'd he, for if he was fetled there, he would have continued only to transgress the five † Commandments, and to fin. He would destroy the life of an infinite years, though number of Animals: He would feize on anothers estate, where ever he could entrap it: He would be permitted to run into all fort of Impurity: He would have been a Lyar and Impostor: he would always be seen drunk, like a Beast: Thousand. It and in fine, he would never have done any good, and would never have meditais feen by this ted for the Future. This is the reason whyel have received him. After this place how they sommona Codom prophelied that after an hundred Thousand \* Kan, Thevetat should be a God and be named Attisaripothiequepout. Mean while Thevetat was buried in the Earth, and even to Hell where he is without possibility of remay purify moving, for want of having loved Sommona-Codom. His Body is the heighth themselves by of a 2-1 chor jeto by Fight Thousand Endom he is in the Hell Anothi 600 of a god, that is to say, Eight Thousand Fadom : he is in the Hell Averhi, 650 Transimigrati- Leagues in greatness: on his head he has a great Iron pot all red with fire, and ons. It ap- which came to his Shoulders: he has his Feet funk into the Earth up to the pears also that Ankles, and all inflamed. Moreover a great Iron Spit which reaches from the the word Pour West to the East, pierces through his Shoulders and comes out at his Breast, which signifies Mercury, en- Another pierces him through the fides, which comes from the South, and goes ters into this to the North, and croffes all Hell. And another enters through his Head, and pierces name of God, him to the Feet. Now all these Spits do stick at both ends, and are thrust a great way into the Earth. He is standing, without being able to stir, or lye Bali Adjective down. The disciples of Sommona-Codom discoursed amongst themselves of the poor Thevetat, faying, that he was able tolcome only to the lake Bukoreni, and not to the Convent, which is near it : And Sommona Codom taking up the difthough I have course, told them, that this was not the first time that such a punishment had happen'd to Theverat, to be swallow'd up and buried in Hell. I remember, purfued he, that Theverar in one of his Generations was an Hunter, and that then I was an Elephant of the Woods. One day then as he was hunting, and as he wandered and was loft, not knowing where he was, I feeing him in fo great an affliction had Compassion upon him, I took him upon my back, drew him exact in their out of the Woods, fet him down near his House, and then returned. Going Orthography.

another time a hunting, as he faw me with very excellent Teeth, it came into his mind, that if he had fuch, he could fell them very well, and hereupon he cut off the two ends of mine. Having fwallowd the Silver that he had made thereof, he return'd to cut off as much more, and a third time he made an end of cutting what remain'd. I was extreamly afflicted thereat, and expressed all the resentments whereof I was capable: but he carry'd not his crime very far, for as he left me, the earth open'd and fwallow'd him up, without giving him time to ask pardon. Upon these words of Sommona-Codom, every one rejoiced at Thevetai's death: And Sommona-Codom faid likewife, I remember that anciently Thevetat was born King of the City of Paranafi. His name was Pingqueleracha. He so tormented his Subjects that not one of them loved him: on the contrary every one defired to fee him dead: and his death happen'd when he least expected it. Every one made publick rejoycings, except the Porter of the City, who wept heartily: and being demanded the reason thereof: Ah! faid he, I weep because that this wretch, wicked as he is, will torment the Devils, as he has tormented us, and the Devils not being able to bear him, will restore him to us, and we shall be as miserable as before. This is the cause of

Sommona Codom ceasing to speak, the Talapoins defired him to inform them where Thevetat was then, and in what place he was gone to revive: and he told them that he was gone to revive in the great Hell Avethi: but, faid they to him, is it that after having suffered so much in this Life, he is gone likewise to fuffer in Hell? yes, replyed Sommona-Codom, for you must know that all Sinners, whatever they are, and of what condition foever they may be, whether Talapoints, or Laicks, after all the sufferings of this World, will have others incom-

parably greater and more grevious.

The End of Theyetat's Life.

Tome II.

This Life was given me at the Moment that I departed for my Return; and Ireceived it without having time to peruse it. At the end I found the beginning of another. Work, on which I could interrogate no Person. I give you what I have thereof.

## An Explication of the Patimouc, or Text of the Vinac.

There are four things, that we ought to do before we enter into the Explanation of the Patimone according to what Samuel On the Explanation of the Patimone In nation of the Patimone, according to what Sommona-Codom has taught.

It is necessary to sweep the Hall where they assemble.

2. It is necessary to light the Lamps or Wax candles.

3. They ought to prepare water in the Spourpots, or in other Veffels defigned to this purpose, for those that shall defire to drink. 4. They ought to fpread Matts or Carpets to fit upon. After the disciples have swept it, they go to tell it to the Master, who answers them that they have done well: then they acquaint him that they have lighted the Lamps, and the Master replys that it was not necessary seeing that the Sun shines, and it is broad day. Afterwards the dictples inform him that they have brought the Water, and spread the Matts: Good, said the Master unto them, this is good. Behold then, faid the disciples to the Master, these four things which Sommona-Codom has taught and ordain'd before they begin the reading of the Vinac. Yes, reply'd the Mafter. The Disciple. What are the four things which it is necessary to do after those which we have mentioned, and which Sommona-Codom has likewife prescribed; are they not these? 1. When there comes in any new Talapoints, after the explication begun, if they are fewer in number than the Auditors, they are obliged to declare that they believe and heartily receive what they have already explained: that if, on the contrary, those that come are more in number than the first, it is necessary to begin again what they have already read. 2. It is necessary to know and to tell in what Season of the Year it is 3. To count the number of the Auditors: 4. To instruct. Begin then, if you please with the first of what season is the first of what season is the season of the Year it was please with the first of what season is the season of the Year is the year is the season of the Year is the it is 3. 10 count the number of these four things. If you please with the first of these four things.

The End of the Fragment:

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#### The Principal Maxims of the Talapoins of Siam, translated from the Siamese.

 $\mathbf{K}$  III no Man. The Talapoins do not only not kill, but they never strike any Perfon. Steal not

Commit not the Sin of the Flesh.

Glorify not your felf, faying, that you are arrived at Sanctity: Every Man, who is not a Talapoin, cannot become holy, that is to say he cannot arrive at a certain de-

Dig not the Earth. 'Tis out of respect to this Element.

Cause not any Tree to die. They are prohibited to cut any branch thereof.

Kill not any Animal.

Drink not any intoxicating Liquor.

Eat not Rice after dinner. They may eat Fruit in the Evening, and chew Betel all the day long:

Regard not Songs, Dances, nor Players on Instruments.

Use no perfumes about you.

Neither Sit nor Sleep in a place to high as that of your Superior.

Keep neither Gold nor Silver. They are prohibited to touch it; but they ill observe this Rule, the Trade of a Talapoin is a Trade to grow Rich, and when they are Wealthy enough, they quit the Cloifter and Marry.

Entertain not your felf with things, which concern not Religion.

Do no work, which is not the work of Religion.

Give not Flowers unto Women.

Draw not water in a place, where Worms are engender'd.

A Talapoin that goes to do his Needs, and who has not first drawn water, to wash himself, Sins: Natural Impurities feem salles unto them.
Contract not Friendship with Seculars in hopes of receiving Alms from them.

Borrow nothing of Seculars.

Lend not unto Usury, though it be only a single Cory. Keep neither Lance, nor Sword, nor any Arms of War.

Eat not excessively.

Sleep not too much.

Sing not worldly Songs.

Play not on any Instrument, and eschew all forts of Sports and Diversions.

Judge not your Neighbor; say not, He is good, this is wicked. Shake not your Arms in walking. They little observe this Precept.

Climb not upon Trees. 'Tis for fear of breaking any Branch thereof. Bake no Tile, nor burn any Wood. 'Tis out of Respect to the Earth and Wood.

It is as bad to bake a Tile as Rice, and it is a wicked act to destroy the Wood. Twinkle not with your Eyes in speaking, and look not with Contempt.

Labour not for Money. They ought to live on Charity, and not on the Work of their hands. Give not strong Medicines to Women with Child. For fear of killing the

Look not upon Women to please your Eyes.

Make not any Incisions that may cause the blood to come out-

Neither fell nor buy any thing.

In eating make not the noise tchibe tchibe, tchiabe tchiabe, as do Dogs. 'Tis the unpleasant noise which certain Persons do make in chewing slowly and gently. The Siameses do take a great care of Decency.

Sleep not in a place exposed to view.

Give no Medicine wherein Poyson is put. By reason of the danger of killing. The 'Art of Physick is not prohibited them: they practise it very much. Wherefore the Siameles are so far from being scandalized, to see the Missionaries practise Physio, that it is principally upon this account that they suffer them, and love them. It is necessary that Tome II. of the Kingdom of SIAM.

the Missionaies do freely care the sick, either by the Art of Medicine, or by Miracle. A Talapoin sins, is in walking along the Streets he has not his Senses composed.

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A Talapoin who shaves not his Beard, his Hair, and his Eye-brows, and who puts not on his Nails, fins. I know not whether this has any other Foundation than an

A Talapoin who being seated, has his Feet extended or suspended, sins. Modefty, in their Opinion, requires that the Legs be crossed, and the Feet placed near the

After that you have eaten, gather not the remains for the next day. They

give them to the Beasts. Have not several Garments. The People frequently gives them some out of Charity,

and they distribute them to their Family. A Talapoin who loves the leffer Talapoins, and careffes them as if they were

A Talapoin who seems to be as austere as a Talapoin of the Woods, and to keep the Rule more exactly than another, who performs Meditation to be seen, and who being alon e, observes nothing of all this, he sins.

A Talapoin who has received an Alms, and who goes presently to bestow it on another, fins.

A Talapoin who speaks to a Woman in a secret place, sins.

A Talapoin who concerns himself in the King's Affairs, which respect not Reli-

A Talapoin who cultivates the Earth, or who breeds Ducks, Poultry, Cows, Buffalo's, Elephants, Horses, Pigs, Dogs, after the manner of Seculars, fins. Not to cultivate the Earth is a respect for this Element; the rest purely represents the Mona-

A Talapoin who in Preaching speaks not Balie, sins. This Maxim is not well render'd by the Translator. Their way of preaching is to read out of the Balie, where thes ought to change nothing, but they must begin in Siamese, and say nothing which is not in

A Talapoin who fpeaks one thing, and thinks another, fins.

A Talapoin who speaks evil of another, fins.

A Talapoin who being waked rifes not immediately, and turns himself on one side, and on the other, fins. It is necessary that it be the hour of rising, that is to say, that they may discern the Veins of their Hands.

A Talapoin who feats himself on the same Mat with a Woman, sins.

A Talapoin who embraces a Woman, fins.

A Talapoin who bakes Rice, fins, because it is to kill the Seed.

A Talapoin who eats any thing which has not been offer'd to him with joyned hands, fins. 'Tis a Vanity, for the respect in this Country, requires that every thing be given with both hands. The Talapoins believing themselves holy, are very vain in respect of the Seculars, whom they think loaded with Sin. They falute no Person, not the King himself, and when the Sanctat preaches, or speaks to the King, the King is behind a Vail to conceal his Majesty : but when this Prince cannot avoid a Talapoin, he salutes him, and the Talapoin Salutes not the Prince.

A Talapoin who dreams in his fleep that he fees a Woman, fo that the effect

of the Dream wakes him, fins. Though all this be involuntary.

A Talapoin who covets another's Estate, fins. A Talapoin who piffes on the Fire, on the Earth, or in the Water, fins. This would be to extinguish the Fire, and corrupt the two other Elements. Mandello reports, that the Banians are prohibited to pifs upon the ground. He knew not the whole Precept 5. and he has been deceived, when he thought it grounded on the fear of killing some Insett. If this were so, the Banians would be prohibited to spill any Liquor, and moreover, they do not believe any Infest in the Fire. Pythagoras forbad pissing against the Sun.

ATalapoin who reviles the Earth, the Wind, the Fire, the Water, or any

other thing whatever, fins.

A Talapoin who excites Persons to fall out, sins. A Talapoin who goes upon an Horse, or an Elephant, or in a Palenquin, fins He ought not to burden man, nor beaft, nor tree. A TalaA Talapoin who puts Flowers in his Ears, fins. A Talapoin who uses Shoes, which conceal his Heels, sins.

A Talapoin who plants Flowers, or Trees, fins. They think it not lawful to dig

A Talapoin who receives any thing from the Hand of a Woman, fins. The Woman lays the Alms which she bestows on the Talapoin in some place, and the Talapoin akes it where the Woman puts it.

A Talapoin who loves not every one equally, fins. That is not to fay, that he must

love another as well as himfelf. A T.dapoin who eats any thing that has Life, as for example, the Grains which may yet bear Fruit, fins. They forbid not to cat anything that has had Life.

A Talapoin who cuts, or plucks up any thing, which has yet Life, fins.

A Talapoin who makes an Idol, fins. "Tis, say they, because that the Idol is above the man, and that it is incongruous that the Idol should be the work of the man, for asmuch as in Justice the Work is inferior to the Workman. The Secular therefore who makes the Idol, sins also, but according to them the Sin is inevitable to the Seculars. In a word, particular Persons have no Idol among st them, and the Siameses do make and sell them only to

fet up in the Temples. A Talapoin who fills not up a Ditch, which he has made, fins. He fins in

making the Ditch, and he fins in not repairing the Evil which he has done. A Talapoin who having no work to do, tucks up the Tail of his Pagne, fins.

A Talapoin who eats in Gold or Silver, fins.

A Talapoin who fleeps after having eaten, instead of performing the Service of

A Talapoin who after having eaten what has been given him in Charity, pleases to say, this was good, or this was not good, sins. These Discourses do lavor of fenfuality, and not of Mortification.

A Talapoin who glorifies himself, saying, I am the Son of a Mandarin, my

Mother is rich, fins.

A Talapoin who wears red, black, green, or white Pagnes, fins. Under these four Colors, and under the yellow, they comprehend all the other Colors, except the Colors of Animals, which have frequently some particular Names. The yellow and fevillemorte, for example, have one Name, blue and green the same; the blue they call little green. A Talapoin who in Laughing raises his Voice, sins.

A Talapoin who in Preaching changes fomething in the Baly Text to please,

A Talapoin who gives Charms to render invulnerable, fins. They believe is possible to render themselves invulnerable against the blows of the Executioners, in the Execu-

tion of Justice.

A Talapoin who boatts himself to be more learned than the reft, fins. A Talapoin who covets Gold or Silver, faying: when I shall go out of the

Convent I will Marry, and be at expence, fins-

A Talapoin who grieves to lose his Relations by death, fins. It is not Lawful for the Creng, that is to fay, the Saints, to lament the Cahat, or the Seconlars.

A Talapoin who goes out in the Evening to visit other than his Father, or his Mother, or his Sisters, or his Brethren, and who unawares contrives to quarrel in the way, fins.

A Talapoin who gives Pagnes of Gold or Silver, to other than his Father and Mother, Brethren and Sifters, fins.

A Talapoin who runs out of the Convent, to seize Pagnes, or Gold or Silver, which he supposes that some has stol'n, sins.

A Talapoin who fits upon a Carpet interwoven with Gold or Silver, which has not been given him, but which himself shall have caused to be made,

A Talapoin who fits down, without taking a Pagne to fit upon, fins. This Pagne is called Santat, and serves to raise the Talapoin, when he is scated. Sometimes they make use of a Buffalo's skin folded in several doubles for this purpose. A Tala-

A Talapoin who walking in the streets, has not buttoned a Button which they have in their habit, fins: and if going into a Balon, he has not unbuttoned this very Button, he fins also. 'T is the Button of the Angfa. I know not the reason of the

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A Talapoin who feeing a company of Maidens fitting, coughs, or makes a noise,

to cause them to turn their head, sins. A Talapoin who has not the under Pagne edg'd, fins: and if that which he has on the shoulder consists not of several pieces, he sins likewise.

A Talapoin who puts not his Cloaths on very early in the morning, fins.

A Talapoin who runs in the street, as pursued, fins-

A Talapoin who after having washed his Feet, makes a noise with his Feet; either on Wood or on Stone, then goes to the house of a Secular, sins, This noise is to make the cleanness of his Feet observed.

A Talapoin who has not learnt certain numbers, or calculations, fins. They are superstitious numbers. Father Martinius in his History of China, p. 16. informs us, that the Chineses are likewise extreamly superstitious on numbers; and that amongst other things, they think the number 9 the most perfect and most lucky of all, and that of 10 the most imperfect and most unlucky. For this reason, the King of China has for the service of his Palace 9999 Barks, and not 10000, and in one of his Provinces he has 999 Stues, or Fish-ponds, and not 1000. He prefers the lucky and odd number, before the even and unlucky. When the Chineses salute him, it is with nine Prostrations.

A Talapoin who going into any one's House makes a Noise with his Feet, and walks heavily, fins. In several of these Rules are discovered several things, wherein the Siameles do partly place politeness, for they require it extreamly in the Talapoins.

A Talapoin who raises his Pagne to pass the Water, sins.

A Talapoin who raifes his Pagne in walking the streets, fins. A Talapoin who judges of the persons that he sees, saying, This is handsome; that unhandsome, fins.

A Talapoin who boldly looks upon men, fins.

A Talapoin who derides any one, or who rails at him, fins.

A Talapoin who sleeps on something high, fins. They have no other Bedsted than a Hurdle.

A Talapoin cleaning his Teeth with a certain Wood common to this purpose, if the Wood is long, or if he cleanses them in discoursing with others, he fins. A Talapoin who eats, and who at the same time wrangles with any one, sins.

A Talapoin who in eating, lets Rice fall on one fide and on the other, fins. A Talapoin who after having eaten, and washed his Feet, picks his Teeth, and then whiftles with his Lips, in presence of the Seculars, fins.

A Talapoin who girds his Pagne under his Navel, fins. A Talapoin who takes the Cloaths of a dead person, which are not yet pierc-

ed, fins. They willingly accept from a man that is a dying,

A Talapoin who threatens any one to bind him, or to have him put to the Cangue, or to be buffeted, or who threatens him with any other punishment, or to inform the King, or fome great man against him; that Talappin who does thus to make himself feared, fins

A Talapoin who going any where, refolves not to keep the Commandments, A Talapoin who washes his body, and takes the current of the water above

another Talapoin more ancient than him, fins. A Talapoin who forges Iron, fins. This is not performed without entinguishing the

Fire, with which the Iron is red.

A Talapoin who meditating upon the things of Religion, doubts of any thing; which he does not clearly understand; and who out of Vanity will not ask another, that might illustrate it, fins.

A Talapoin who knows not the three Seasons of the Year, and how he ought to make Conferences at every Season, fins. I have said in discoursing of the Seasons, that the Siameles have only three, the Winter, the Little Summer, and the Great Summer. A Tala-T t

A Talapoin who knows that another Talapoin owes Money to any one, and who nevertheless enters into the Temple with this Talapoin, sins. We have before feen a Rule which prohibits them to borrow of Seculars.

A Talapoin who is at Enmity, or in a rage with another Talapoin, and who ne vertheless comes with that Talapoin to the Conferences, which are made about

the things of Religion, fins.

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A Talapoin who terrifies any one, fins. A Talapoin who causes any one to be seized, by whom he loses Money, if it is less than a Tical, fins; if more than a Tical, this Talapoin must be cashier'd. A Talapoin who gives Medicines to a man, who is not fick, fins. They allow

no preventing Medicines.

A Talapoin who whiftles with his mouth to divert himself, fins. This Precept is general. The Talapoins are prohibited to whistle upon any account whatever, and to play on any Instrument: So that these words, with his Mouth to divert himfelf, which are in this Precept, are not to extenuate the signification, but only because the Siamele tongue loves to express the manner of the things which it expresses. The Hebrew tongue is of the same Nature, mulier si suscepto semine pepererit filium, &c. And this Remark may be applied to some other of these Maxims of the Talapoins.

A Talapoin who crys like Robbers, fins. A Talapoin who uses to envy any one, fins. Some would say that, according to

them, an Act of Envy is no Sin; but it may be that in this the Translation corresponds not exactly to the natural fense of the Precept.

A Talapoin who makes a Fire himself, or who covers it, fins: It is not lawful to kindle the Fire, because it is to destroy what is burnt; nor to cover the Fire for fear of extinguishing it. Pythagoras prohibited the striking a Sword into the Flame.

A Talapoin who eats Fruit out of the Season of this Fruit, fins. I am persivaded that these words, out of Season, must be understood before the Season, because

that it is to kill the feed, which is in the Fruit, by not permitting it to ripen.
A Talapoin who eats one of these eight forts of Flesh, viz. of a Man, of an Elephant, of an Horse, of a Serpent, of a Tyger, of a Crocodile, of a Dog,

or of a Cat, fins.

A Talapoin who goes daily to beg Alms at the same place, fins.

A Talapoin who causes a Bason to be made of Gold or Silver, to receive Alms. fins. They receive Alms in an Iron Plate.

A Talapoin who sleeps in the same Bed with his Disciples, or any other Perfons whatever, fins.

A Talapoin who puts his hand into the pot, fins. 'Tis for this reason that the affront of the Spoon in the Pot, is the greatest that can be given to a Siamese.

A Talapoin who pounds Rice himself, winnows it, and cleanses it, or who takes Water to boil it, fins. To be a Servant to Sin, is Sin.

A Talapoin who in eating befmears himfelf round the mouth, like a little

A Talapoin who begs Alms, and takes more than he can eat in one day, fins.

A Talapoin who goes to do his Needs in an open place, fins.

A Talapoin who takes Wood, or any thing else to make a Fire, in a place where some Animal uses to take his repose, fins. In the expression of this Precept there is something of the Genius of the Siamele tongue, for this Precept does not intimate that the Talapoin may for any reason whatever, take Wood in a place, where any Animal has used to take his repose, nor that he maykindle a Fire with any Wood whatever, but the meaning of the Precept is, that it is a double Fault to make the Fire, and take the Wood in a place, where some Animal has chosen his Lodging.

A Talapoin who going to beg Alms coughs, to the end that he may be seen, fins. He fins likewife as often as he cought to attract the Eyes of others, though it be not

in going to crave Alms.

A Talapoin who walking in the Streets, covers his Head with his Pagne, or puts on a Hat, as do sometimes the Seculars, sins. The Talapoins shelter themselves from the Sun with their Fan, in form of a Screen, which they call Talapat.

A Talapoin who takes off his Pagne, that his body may be feen, fins.

A Talapoin who goes to fing, or rather to rehearfe, at a dead man's House, fins, if he reflects not upon Death, upon the Certainty of all Persons dying, upon the Instability of humane things, upon the Frailty of Man's Life. This is partly the matter of their Song over dead bodies.

A Talapoin who in eating has not his Legs croffed, fins. In general they cannot

fit otherwise on any occasion.

Tome II.

A Talapoin who fleeps in a place where others have lain together, fins. A Talapoin who being with other Seculars, and wrangling with them extends his Feet, fins. Modesty requires that they cross their Legs.

#### An Account of the Charges of Justice, translated out of the Siamele.

W Hen the Judge receives the first Petition, for this 1 Livr. The Judge, or Tchaou Menang counts the Lines and the Cancellings; and affixes his Seal to the Petition, for this 3 Livres.

The Tchaou-Menang fends the Petition to one of the Councellors, such as he pleases, but generally to the  $N_{sli}$  of the Parties, to examine, and to show the habitation of both the securities of the Parties, Livre.

For him that goes to fummon the two Parties to come to the Hall of Justice,

When he must lye a Night on the Road, 4 Livres. To have the Liberty of giving each a Security, for the Judge 16 Livres, for the Clerk that writes 3 Livress this is the receiving of the Bail.

For copying the reasons of the two Parties to present to the Judge, to the

Clerk 3 Livres. to the Judge 3 Livres. For the Clerk who goes to hear the Witnesses, 3 Livres. And if there is a day and a Night on the road, 4 Livres. In this Country they go to find the Witnefses at their Houses, to receive their Depositions, and for this purpose there is deputed only one Clerk. The Law prescribes neither a Re-examination nor confronting of Witnesses. though the Judges cease not sometimes to confront the Accuser with the Accused. Reproaches against the Witnesses are not here in use, and oftentimes the Accused knows not who are the Witnesses that depose against him.

If the Parties do examin several Witnesses, he takes one Livre for every

To copy the Evidences or Testimonies of the two Parties, and to make them fit to be prefented to the Judge, to judge thereof, Four Livres, as well to the Councellor as to the Clerk.

For the Governour or Judge to fit in the Hall of Justice, five Livres. When there are Or. Pra for Second or Belar, and for Councellors, to each five Livres.

To the Oc-Louang three Livres.

When the Cale is judged, for him that keeps it, three Livres. A Collation or Entertainment for the Councellors, three Livres.

When it is order'd and judg'd to confult the Law of the Country, which they call, Pra Rajja cit di caa ajat caan; for the Councellor who readsit, whon they call Peng, three Livres. More a white Cloath of about four Ells, more about five pound weight of Rice, more a Taper of yellow Wax, more five mouthfuls of Arek and Betel, more a Hen, more two Pots of Arak, more fome Flowers and a Mat to put under the Books. Of which the two Parties do pay as much one as the other:

Instruments

#### Concerning the Measures, Weights and Moneys of Siam.

The Measures. THe Stamele Measures are formed or composed after this manner.

Peet met caou pleuac, that is to fay, eight Grains of whole Rice, the first cover of which has not been bruifed in the Mill, amount to a Fingers breadth, in Si-

Twelve Fingers breadth do make a Kenb, that is to fay, a Palm, or the open-

ing of the Thumb and the middle Finger. Two Keub do make a Sek, that is to fay, from the Elbow to the ends of the

Two Soke do make a Ken, that is to say a Cubit, from the ends of the Fing-

ers to the middle of the Breaft. Two Kens make a Fadom, which they call Vona, and which is near an Inch less than our Toile; fo that within a very little their eight Grains of Rice, which

do make their Fingers breath, do amount to 9 of our Lines, which we esteem equal to 9 Barly Corns.

Twenty Fona do make a Cord, which they call Sen.

And an hundred Sens, that is to fay an hundred Cords, do make one of their Leagues, which amounts to two Thousand Fadom. They call their League roe neng, that is to fay, a Hundred, roe lignifies a Hundred, and neng fignifies One. Thus the Italians do fay a Thousand.

In a word, four of their Leagues, or 8000 Vona or Fadom, do make a Jod.

And these are all their Measures of Lengths.

The Weights The Names and Values of the Weights and Moneys together are these. 'Tis and Moneys, true that some of these names do not fignifie the Moneys, but the Values or the Sums; as in France, the word Livre fignifies not a Money, but the value of a pound weight of Copper, which is a Sum of Twenty Sols.

The Pic is worth Fifty Catis. The Cati is worth Twenty Teils.

The Teil four Ticals.

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The Tical is a Silver Coin, and is worth four Mayons, and it is the weight of half an Ounce, by reason of which the Cari weighs two pounds and a half.

The Mayon is a Silver Coin, and is worth two Foungs.
The Foung is also a Silver Money, and is worth four Payes.

The Paye is not a Coin, and it is worth two Clams. But the Song-Paye, that is to fay the two Pages, are a Silver Coin, which is worth half a Fonaug.

The Clam likewise is not a Coin, but it is thought to weigh twelve Grains of

Rice. This is what was told me, and upon this ground the *Tical* should weigh 768 grains of whole Rice, which I have not tryed.

All these names are not Stamese, but common amongst the Europeans which are at Siam. I know not of what Tongue the word Pic is. In the Levant it

fignifies a fort of Ell, nine of which do make five of Paris: At Sism it is the weight of One Hundred twenty five Pounds; of fixteen Ounces to the Pound. The word Cati is Chinese, and is called Schang in Sismese, but the Chinese Cati

is worth two Siamefe Cari's. Teil, or as others do write Tael, is also a Chinese word, which is called Tamling in Siamese, but the Siamese Cati is worth but eight Chinese Taels, whereas it

is worth twenty Siamefe, as I have faid. Tical and Mayon are words the Origine of which I am Ignorant of, and which the Siameses do call Bant and Seling. Foung, Page and Chem are of the Siamese

As to the Agreement of this Money with ours, to take it vulgarly, and without this exactness, which is not necessary to Commerce, a Baat or Tical, although it weighs only half a Crown, yet it is worth Thirty feven Sols and a half of our Money, by reason of which a Casi is worth Fifty Crowns.

#### Tome II. of the Kingdom of SIAM.

A List of the Moveables, Arms, and Habits of the Siameses, and of the Parts of their Houses.

DRa, a great Cleaver which ferves them instead of a Hatcheti

Cion, a Joyner's Chifel.

Lenai, a Saw.

Kob, a Joyner's Plane.

Kabila, a Wimble. Quiob, a Spade.

Renang, a House. Saon the Bambon-Pillars which bear the House, being four or fix in number, The parts of a planted at equal distances in two rows: They are twelve or thirteen foot a House.

bove the ground. Rost, the two Transomes or Bambous laid a cross, like Beams on Piles, along

the front, and along the back part of the House.

Raneeng, the other Transomes or Bambous laid on the Piles, two or three in number, along both the sides of the House, and on the two middle Piles, when the House is set upon fix Pillars.

Prenang, Hurdles serving to plank the lower, or first Floor.

Flat, Sticks flatted and joyned together at equal diffances, to lay over the Floor, inflead of a Carpet: They lay them also on the Hurdles, which serve the wall instead of Wainscot.

Mefa, the Mother wall, they are the Hurdles or Wainscoting, which serves

as the outward wall.

Fa, the Hurdles which do make the principal inclosures. Louk fa, the Son of the Inclosure, that is to say, the leffer Inclosures.

Pakton, the fore mouth or door of the House. Pak fignifies a mouth. Natrang, a Vilage-keeper or Window, they are kind of Penthouses which are railed, and supported with a stick, and which are let down again when they would that the Window. There is no Glass. Na fignifies a Visage, tang, to

Ken, the Hurdle which serves for the upper Floor, or Cieling?

Dang, the two Bambou Pillars to bear the roof.

Okkai, the Transome or Bambon laid on these two Pillars, to make the Ridge

Cloon, the Hurdles of the Roof laid floping on both fides the Oklai.

Kiak, Foliages which ferve instead of Straw. Krabonang, the Tiles: but the Houses of particular persons have none if

they are not of Brick; on which account they belong to the Europeans, the Chinefes or the Moors.

Pe, the Roof. Hong, a Chamber.

Gadai, the Ladder of the House.

Tong, the two Bambou's which make the two fides of the Ladder.

Sena, a Matt of Bulrush.

Sena, a Matt of Bulrush.

Te-nou, the place where the Bed is laid to lye upon, when they have no Bed-Their Morea-

Uu

sted. Non fignifies to Sleep. Ti fignifies a Place. Tion nature to steep. A lignifies a trace.

Tiong-now, a Bedfled without Pofts or Head, but with four or fix feet, which are not joyned by overthwart Beams. The bottom of this Bedfled is a Lettice of Bulruft, like as have the Chairs which come to us from England, and the Wood

of Bultuin, like as nave the chairs which come to us from England, and the yrod of which the English do fend to the *Indies*, to be there gamilined with Bultrush.

Cre, such a fort of Beddled, but without feet. All these Bedsteds are very narrow, because they only serve a single person. This only some of the meaner people, who lye in the same Bed with their Wives; and they have no Bedsted and his Chamber apart, but in sted. Amongst the Rich every one has his Bed and his Chamber apart, but in

A List

Foul-rong non, the Mattress, or rather the Bed of Capos, a kind of Cottonwool, instead of Feathers. They are not quilted; rong fignifies nnder, non to

Pa-post-non, the under Sheet to fleep on. They have no upper Sheet, which

is other than the Coverlet. Pa-houm-non, the upper Sheet, that is to fay the Coverlet. They are only

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fingle Cetton-sheets. Mon, a longith Pillow, but when they lye together, every one has his own, as in Spain. Mon fignifies also a Cushion to lean on, for they never sit thereon.

Man can ti-non, a Curtain before the Sleeping place. Man fignifies a Curtain or Tapistry. Can fignifies before. They put a Curtain before their Bed, to prevent being feen, because that from one Chamber to the other there is no Door which fluts.

Man can-fak-renan, a Linnen Curtain. Man a Curtain, can before, fak the flat flicks fasten'd at equal distances, to serve as Wainscot, renan signifies a House. Prom, a Carpet for the Feet.

Kiam, 'tis the fame thing.

Tloum, Tables with a Border and without Feet, called otherwise bandeges, and by our Merchants flat and thin Tables. When they eat together, every one has his Table at Sian, as at China. They have neither Table-cloaths nor Napkins, but the varnith'd Wood of their Tables is very eaftly cleanfed with hot water : and so they easily make a shift without a Table-cloath.

Hip, a Cheft. Hip chipoun, a Japan Cheft. Hip-lin, a Cabinet with Drawers.

Tad, a Copper Dish, they generally serve up their Fish therein.

Me-can, a Pot to put Water in ; Can fignifies a Pot, Me fignifies Mother.

Can-nam, a bouli of Copper to boil Water for Tea; nam fignifies Water.
Can-nam-noi, a little Cannam. Tis a Cup round at the bottom, and without Feet.

Kon thoo, a Drinking-pot.

Kon thii, an earthen bouli for Tea.

Tioc noy, a little Tea-Cup.

Tiocyai, a larger Cup. Taboi tong kin-nam, a Copper Ladle to drink Water. They also have some of Coco for this use: They bore a Cup of Coco on both fides, and thrust a Stick into the two holes, which croftes the Coco, and ferves as a handle. Tong equally fignifies Gold and Brafs, Tong di, good Gold; Tong Leuang, falle Gold or Laten. Kin fignifies equally to eat and drink, according as it is fpoken of a thing folid or liquid. Thus the words, to take and to fiwallow are common in our language, to folid Aliments and to Liquors.

Totac, the Ladle in the Pot. 'Tis the greatest affront that can be spoken to any one, as if one should tax him to be such a Glutton, as with his own hand to take out of the Pot, and not to flay till the Pot be emptied into the Dish. None but Slaves take the Ladles out of the Pot, or use them.

Tonas, a Porcelane Plate, or Dish.

Tehan, a Porcelane Bowl to put Rice in. They use a great deal of Porcelane, because they have some very course, and very cheap.

Tian, a little Saucer to put under the Tea-dish. Mo caon, a Skellet to boil the Rice; Mo a kind of Pot or Skellet, caon, Rice. Quion, a Spoon. They tale it only to take the Sweet-meats, which are always ferved in little Porcelane Saucers with the Tea. They have neither Fork

nor Salt-feller. They use no Salt at Table. Mid, a Knife. They have every one a little one to cut the Arck; they use it not like us, by holding what they would cut between the Thumb and the edge of the Knife, but they always place the Thumb on the back of the Knife, and they guide the edge with the fore finger of the Right hand, which they

Mid-conne, a Razor or Knife to shave. Their Razors are of Copper; conne

fignifies to shave.

Timquian, a Candlestick; quian is a Candle of yellow Wax. They know not how to whiten the Wax, which they have in abundance; and as they have no Butchers meat, they have no Tallow; and Tallow in this Country would be of a nafty use, it would melt too much by reason of the heat.

Pen, another fort of larger Knife, which they carry about them for their use,

and which might ferve them for Arms in case of need.

Mid-tok, a fort of Knife to cut the Wood, with which they fasten the foliage which ferves them for Straw.

Krob, a Gold or Silver Box for the Arek and the Betel. The King gives them, but it is only to certain confiderable Officers. They are large, and cover'd, and very light: They have them before them at the Kings Palace, and in all Ceremonies.

Tiab, another Box for the same use, but without a lid, and which lyes at the house. Tis like a great Cup, sometimes of Wood varnished; and the higher the family is, the more honourable he is. For ordinary use they wear a Purse about them, wherein they put their Arek and their Betel, their little Cup of Red Calx, and their little Knife. The Portuguese do call a Purse Bosseta, and they have given this name to Krob, which I have discoursed of, and after them we have call'd them Boffettes.

Ca ton, a Spitting-pot, which they all use by reason of the Betel, which

makes them to fpit very much.

Rena, a Balon, or strait and long Boat for a single Officer.

Cren, a Balon for a whole Family.

Monng, a Fly-net. Tis a Teftern and close Curtain of Tiffany, which the Talapains alone do use, not to be incommoded with the Gnats, and to prevent being forced to kill them. The Seculars have none of these Fly-nets, but they kill the Gnats without scruple.

Kaon-i, a Chair of State. None but the King and Talapoins have thereof, to

feat themselves higher than others. The Talapoins do think themselves very

much above other men.

Monamont, a Chamber-pot. The Talapoins alone do use them, because they are prohibited to piss upon the ground, or in the water, or in the fire.

Lompols, a Bonnet of Ceremony. Lom fignifies a Bonnet, pok high. It is Thelt Hables, commonly White, but in Hunting and in War it is Red.

Pa-noung, a Linnen Sash. 'Tis the Pagne which they wear round their Reins and Thighs. The King gives the finest, which are called Pasampac, and no person can wear them of this fineness, to whom he does not give them,

Sena-kaon, the Muslin Shirt, which is their true habit. The word Sena fignifies also a Mat, but then it has another Accent, and the Siameses do write it

with other Characters.

Tchet.na, a Handkerchief. The Lords have it carry'd by their Slaves, and do take it themselves only in entering into the Palace; but they dare not to wipe themselves before the King: the generality are without Handkerchiess.

Palonm, the upper Linnen. Tis that Linnen, which they wear like a Mantle against the cold, or like a Scarf on their Shoulders and round their Arms.

Rat (a-you, a Belt into which they put their Dagger. They wear it also like

a Scarf over the Coat of Mail.

Pafabai, a Womans Scarf. Sena creuang, a Vest to put under the Muslin Shirt.

Sena houm, a close Coat of Mail, or Red Shirt for the War, and for Hunting. Moak, a Hat. They love them of all colours, high, pointed, and the edge about a fingers breadth.

Peun nok fap, a Musket or Fusil. Peun fignifies a Cannon,

Peun yai, a great Cannon.
Touan, a Lance after the Siamese fashion.

Stok, a Zagaye or Lance, after the Moors fashion; 'tis like the blade of a Sa-

bre at the end of a Stick. Dab, a Sabre. They have it carry'd by a Slave, who holds it respectfully on his Right Shoulder, as we carry the Musket on the Left.

Krid.

Their Arms.

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Krid, a Dagger which the King gives to the Mandarins. They wear it thrust into a Girdle on the Left fide, but very much before. The Europeans do corruptly call it Crist.

Kantar, a Bow. Lo, a round Target.

Na-mai, a Cross-bow; mai signifies a Stick.

Lan, a Dart. 'Tis a Bambou arm'd with Iron-

Laon, a Dart of Bambou, harden'd in the fire, without Iron. Laon writ after another manner fignifies all intoxicating Liquors.

Mai-tabong, a Battle-axe. Mai-taon, a Trunchion.

#### The Names of the Days of the Months and of the Years of the Siameses.

In in Siamese figuifies a Day. The names of the Days are, The Dys.

Van Athit, Sunday.

Van Tehan, Munday. Van Angkaan, the days of Mars, or Tuesday. Van Pout, the day of Mercury, or Wednesday. Van Prahaat, the day of Jupiter, or Thursday.
Van Sone, the day of Venus, or Friday.
Van Saon, the day of Saturn, or Saturday.

The names of the Planets are therefore Athit, Tchan, Angkaan, &c. It is true they name not the Planets without the names of the Days, without giving them the Title of Pra, which, as I have feveral times declared, denotes a very great excellency. Thus Pra Athit fignifies the Sun, Pra Tchan the Moon, Pra Pra Prabaat Jupiter: but the word Pra is written with a P. stronger than that which is in the first syllable of the word Prabatt. In short all these names are of the Baty Tongue, the Sun is called Tavan, and the Moon Doen, in Stames. Abraham Roger in his History of the Manners of the Bramines has given us the names of the Days in Samfcortam, which, faith he, is the learned Language of the Bramines of Paliacata on the Coast of Coromandel. They are taken also from the Planets. Surjawaram Sunday, Jendrawaram Munday, Angaracawaram Tuefday, Buttawaram Wednesday, Brahaspitawaram Thursday, Succrawaram Friday, Senniwaram Saturday. It is evident that Waram fignifies Day, that Suria is the name of the Sun, perhaps with some inflection to denote the Genitive; and that Jendra is the name of the Moon, perhaps also with some inflection, which being taken away, would leave some resemblance between this word, and the Bali Tchan. As to the other names, Angaraca participates enough of Angkaan: Butta, which it is necessary to pronounce Boutta, is no other than Pout : Prahat agrees with the beginning of Brahaspira, and Succra and Souc are the same word. Senni and Saou appear more remote, and Suria and Athir have nothing common:

the Baly word Athit. The Chinese, according to Father Martinius in his Historia Sinica, p. 31. do not name the Days by the Planets, but by the fixty names, which they give to the fixty Years of every Cycle: fo that their Week, fo to explain my felf, is a Revolution of fixty Days.

but what the same Author adds, is remarkable, that Sunday is called Aditawaram in the vulgar Language of Paliacata: for it is there that we do again find

The Siamefes do call the Months in their Order The Months.

Denan fignifies a Month Denan ai, the first Month. Denan Tgij, the second Month. Denan Sam, the third Month.

Denan Sii, the Fourth Month. Denan Haa, the Fifth Month. Denan Honk, the Sixth Month. Denan Ker, the Seventh Month. Denan Peet, the Eighth Month. Denan Caon, the Ninth Month. Denan Sib, the Tenth Month. Denan Sib &, the Eleventh Month. Deuan Sib Song, the Twelfth Month.

The Siamese People understand not the Words Ai and Tgii, which are the names of the two first Months; but it is probable that these are two old numerical Words, which fignifie One and Two; and this is evident from the Word Tgii, because that the Siameses do say Tgii-Sib, to signifie Twenty, which verbatim is two Tens. All the other names of Months are still in use to signific Numbers, with this difference, that when they are put before the Substantive, they fignifie pure Numbers; and that when they are plac'd after, they become Names, which denote Order. Thus Sam Denan fignifies Three Months, and Denan Sam, the Third Month.

Pii fignifies a Year. The Twelve Names of the Year are:

The Years.

Pii ma mia, the Year of the Little Mare. Pii ma me, the Year of the Great Mare.

Pii Vok. the Year of the Ape. Pii Rakaa, the Year of the Crow. Pii Tebio, the Year of the Sheep.

Pii Counne, the Year of the Pig.

Pii Chonat, the Year of the Rabbet. Pii Tchlou, the Year of the Lizard. Pii Kan, the Year of the Hens.

Pii Tho, the Year of the Goat. Pii ma Rong, the Year of the Sea-Gull.

Pii ma Seng, the Year of the Great Serpent-

Most of these Names are also of the Balie Tongue. Now as the Siameser do make use of the Cycle of Sixty Years, they ought to have Sixty Names to name the Sixty Years of every Cycle, and yet the Perfons, whom I have confulted, could give me no more than Twelve, which are repeated five times in every Cycle, to arrive at the Number of Sixty: But I doubt not that it is with some additions, which do make the differences thereof; and I think to find the proof thereof in two dates of Siames Letters, which I have carefully taken from the Originals. The first is thus: In the First Month, the Ninth Day after the Full Moon in the Ara 2229, the Tear Telliou Saploc. And the fecond is thus: The Eighth Month, and the First Day of the Moon's Decrease in the Tear Pii Tho Saploc of the Ara 2231. The Word Ara in these two dates simply signifies Year, according to the Spanish language; fo that it is all one to fay the \*\*Era 2229, and to say the Year Telulos Suppos: to say the \*\*Era 2239, and to say the Year Pii Tho Suppos: Belides, as the Word Pii signifies Year, they might put Tho Suppos instead of Pii Tho Suppos, as they have put Telulos Suppos, and not Pii Telulos Suppos. Now these two Years which are the Years 1685, and 1687 of Jesus Christ, are not called simply either by Tchlon and Tho, that is to say of the Lizard and Goat; but to the Words Tchlon and Tho, is added the Word Sapoe, which I understand not, and which was added to the Names of the Twelsth of the Years, which run then to diffinguish it from the four other Twelfths of the Years of the same Cycle.

#### Of the Monsons and Tides of the Gulph of Siam.

WIE find upon our Seas, that the the Winds be very variable, yet they change with this almost infallible Rule, of passing from the North to the South only by the East; or from the South to the North, only by the West; or from the East to the West, only by the North. So that the Wind continually veers about the Heaven, passing from the North to the East, and from the East to the South; and shouth to the West, and from the West to the North; and almost never in the contrary manner: Yet in the temperate Zone, which is on the South of the Line, when we navigated those Seas which are on the East of Africk, we experimented in our return from Siam, that the Winds went always contrary to this Rule; but to assert whether this may be always so, requires more than one Proof. However it be, the Wind goes not so in the Gulph of Siam, but it only encompasses the Heaven in a year; whereas on our Seas it does it in a small number of days, and sometimes in one day. When in the Indies the Wind blows round the Compass in a day, it is stormy: This is what they properly call a Hurricane.

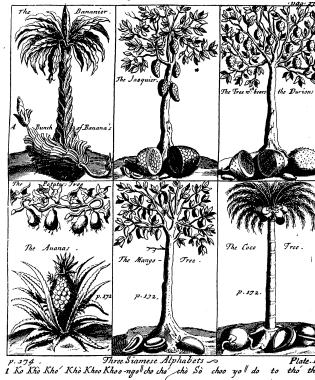
what they properly can a landadus, the South-wind prevails at Siam, In the Months of March, April and May, the South-wind prevails at Siam, In Heaven is diforder'd, the Rains begin, and are very frequent in April. In June they are almost continual, and the Winds do turn to the West, that is to say, do blow from the West and the South. In July, Angust, and September, the Winds are in the West, or almost West, and always accompany'd with Rains, the Waters overslowing the Earth to the breadth of nine or ten Miles,

and above One hundred and fifty to the North of the Gulph.

During this time, and especially towards the middle of ful, the Tides are so fitting, that they ascend up to Siam, and sometimes to Lowo; and they decrease in twenty four hours with that measure, that the Water becomes sweet again before Bancock in an hour; the Bancock be seven Miles from the mouth of the River, yet the Water is always somewhat brackish.

In Otheber the Winds do blow from the West and the North, and the Rains do cease. In November and December the Winds are North, do clear the Heavens, and seem so exceedingly to lower the Sea, that in few days it receives all the Waters of the Inundation. Then the Tides are so insensible, that the Water is always sweet two or three Leagues in the River, and that at certain hours of the day, it is the same for a League in the Road. But at Siam there never is more than an Ebb and Floud in twenty sour hours. In January the Winds have already turned to the East, and in February they blow from the East and

the South. 'Tis a confiderable Circumstance, that at the time when the Winds are in the West, or that they blow from the West, the Currents of the Gulph do rapidly carry the Ships on the Eastern Coast, which is that of Camboya, and do hinder them from coming back again; and that at the time when the Winds are to the East, or that they blow from the East, the Currents do run on the Western Coast, so that then in Sailing it is necessary to fear being bore away. Now this proves, in my opinion, that the Winds have a great share in the motions of the Sea, forasmuch as some have proved, that these Currents are only in the upper parts of the Waters, and that underneath they have a quite contrary Current, because that the upper Waters being continually rowled on the Shore, returns underneath towards the Coast from whence it came. After the same manner it seems that they are the South-winds, which drive on the Flux, and maintain it for fix Months further up in the River, and that they are the North-winds which do hinder it the entrance of the River for the fix other Months.



Keny Kaái Káou Kíon Kun Keuý Kedi Koủy Koni 369 C ME M N N N N N N N NE NE Keón Kéon Koủy Kôi Konai Kiaón Kiá 690 690 DE NEO SOE 69E The Sequel of this Alphabet is in the following Plate.

#### A Description of the principal Fruits of Siam.

THE Figs of India, which the Siameses do call Clouey-ngouan-tchang, Elephant's Trunks, have not the tafte of our Figs, and, in my mind, they are not fo good. Thus the Melons of Siam are not true Melons, but the Fruit of a Tree known in the Illes of America under the name of Papayer. I have not caten of this Fruit. But to return to the Fig, it is of the fize and shape of a Sausage. Its green Skin, which waxes yellow and spotted with black in its maturity, is eafily separated from its foft and clammy pulp, and 'tis that which has given it the name of Fig., but in the midft of its pulp there is no vacuity, nor any of those kernels which do make as it were a little gravel in our Figs, when they are a little dry'd. Its tafte is strong, and it has something of sharpness and sweet-

The Bananas, which the Siameles do call Clouey ngaa-tchang, or Elephant's Tooth, is almost the same thing as the Fig, save that it is greener and longer, and that it has Angles, and Faces or flat Sides, which are re-united point-wife at both ends. These Fruits do hang like Nosegays, or rather like great Bunches of Grapes, from the top of the Trunk of the Trees which bear them. The Figs grow hard in the Fire, the Bananas which are not altogether so delicate raw, do wax fost again, do there lose their sweetness, and do acquire the taste of our Pippins ripen'd on the Apple Tree.

The Goyaye ( in Stamese Lone Kiac, Lone fignifies Son, Kiac is the name of the Goyavier) is about the fize of a middling Apple. Its Skin is of a grayish green, like that of certain Pears: under this Skin is a pulp of the confiftence of that of the Citron, but not so white. When it is put into the mouth, it savors the Strawberry; but this Strawberry tafte foon loles itfelf, because it becomes too strong. This pulp, which exceeds not the thickness of a Crown-piece, contains a liquid substance like Broth, but grayish, and which would not be less pleasant to eat than the pulp, if it was not mix'd with an innumerable number of finall kernels so hard, that it would be difficult to chew them.

The facques, in Stamele Canonn, are of the shape of a great Melon ill rounded. Under a grayish Skin fashioned like Chagrin, they have a very great number of kernels, or ftones, if ones, if we confider their magnitude, which is almost like a Pigeon's Egg: kernels, by the thin and smooth wood which incloses them. These stones therefore or kernels being broil'd or boil'd, differ not from our Chestnuts either in taste or consistence, excepting that they are, in my opinion, Onethnus either in tatte or connience, excepting that they are, in my opinion, more delicate. At one end they flick to a pulp which invelops them all, and feparates them one from the other. It is eafly torn off, according to the course of its fibres; it is yellow, juicy, clammy, and glutinous, of a sweet taste, and strong smell. It is not possible to chew it, they only suck it.

They gave us a Fruit like to Plums, and we at the first appearance were deceived. It had the pulp and taste of a Medler, and sometimes two, sometimes there done but hierer states and strong they have the medler has them. This

three stones, but bigger, flatter, and smoother, than the Medler has them. This Fruit is called Mouffida in Siamefe.

The Ox-heart was so named by reason of its size and shape. The Skin thereof is thin, and this Fruit is foft, because that on the inside it is only a kind of white Cream, and of a very agreeable tafte. The Siameses do call it Man-

The Durion, in Stamele Tourrion, which is a Fruit very much efteem'd in the Indies, appear dinfupportable to me for its ill finell. This Fruit is of the fize of our Melons cover'd with a prickly Coat like our Cheftnuts. It has alfo, like the Juques, feveral stones, but as big as Eggs, in which is contained what they eat, in the inside of which there is also another stone. The's fewer there is of these stones in a Durion, the more pleasant the Fruit is.

The Mango, in Siamese Mamonan, participates at first of the taste of the Peach

I have not feen the Mangoustan, which is faid to be much better than the

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The Stamefes have some sharp Fruits which quench the thirst, and which upon this account appeard unto me the most agreeable of all. They are small as Plums, and have a stone encompast with a white pulp, which easily melts in the

The Tamarinde is also sharp. 'Tis a Fruit enclosed in a shell like an Almond. and then several of these Fruits are likewise included in a Cod. I preserved fome, and found the Syrup thereof very pleasant during my return; but by little and little it lost its sharpness, and there remain'd only the taste of the Pimpernel. The Tree which bears it, and which is very large, has a Leaf refembling

From this Country I brought feveral forts of liquid Sweet-meats, which were come from China to Siam about two years, and they cealed not to keep very well to Paris. The Syrup especially was very good, and had nothing of Candy, not withstanding the heat of the Climats through which it had passed. These Sweet-meats had perhaps been made with Sugar-candy, whith is the fole Purifier that the Orientals have. I refer my felf to the Confectioners.

I speak not of the Sugar-canes wherewith Siam abounds, nor of the Pepper, because I saw none thereof. The King of Siam, they say, has caused an hundred thousand thereof to be planted. Tis a Plant which needs Props like the Vine, and the Pepper hangs thereon also by little Bunches, like to those of

The Ananas, in Siamese Saparot, has the meat white, and the taste of our Peaches. Its meat is mixed with a little wood, not a wood which separates as there is in our Nuts, but with a wood that adheres thereto, and which is only the meat over-hardned; and it is at the Center that it begins to grow hard. The Ananas is believed unwholfom, because that its juice, they say, corrodes Inc. Annual is Delieved unwindiom, because that its juice, they lay, corrodes fron. It is yellow when it is ripe, and then to finell it without opening it, it has the feent of a roafted Apple. Its Figure is like a great Pine Apple, it has little rindes curioufly ranged, under which, to behold them, one would think that the kernels are. The Plant which produces it bears it at the top of its stalk, which is not three foot high. The Annual keeps directly upon the little and the stalk of the stalk end; and at the great end there is a tuft of Leaves, like little Corn-flags, flort, bent outwards, and toothed. Sometimes from the body of this Fruit, and at the fides, there grows like Wens, one or two other little Anana, which have also their Tufts. Now every Tuft cut and put in the ground, may produce another Ananar, but every Plant bears only one, and bears no more than

The Coco, in Siamese Ma-praon, is a kind of Filbert, but much bigger indeed than a Filbert, as may be feen by those Cups of Coco which they sell us. 'Tis the wood thereof which is naturally cover'd like that of our Nuts, with a brow or green bark an inch thick, and full of fibres, whereof Cordages may be made. In the wood of the Caco is a very pleasant liquor, and the wood there-of is so full, that it spurts a great way when it is pierced. As this Fruit ri-pens, this liquor congeals at the extremities, that is to say near the wood, and there forms a Nut very white, and of a very good tafte; the water which is not yet congealed remains still at the Center of the Fruit, and at length it all

congeals.

#### Of the Siamese and Balie Languages.

Tome II. of the Kingdom of SIAM.

THE Siamese Tongue has Thirty seven Letters, and the Bals Thirty three, but they are all Consonants. As to the Vowels and Dipthongs, of which there is a great number in the one and the other Language, they have indeed fome particular Characters, whereof are made other Alphabets: but of thele Characters fome are placed always before the Confonant, fome others always after, others above, others underneath: and yet all thefe Vowels, and all thefe Dipthongs thus varioufly diffored in refrect of the Confonant, muft only be pronounced after it.

But if in the Pronunciation the Syllable begins with a Vowel, or with a Dipthong, or if it is only a pure Vowel, or a pure Dipthong, then they have a mute Character, which supplys the place of a Consonant, and which must not

This mute Character is the last in the two Alphabets, the Siamese and Balie. In the Stamese it has the figure of our o, and indeed it countervails an o, when it must be pronounced, and not be a mute Consonant, that is to say, when it is preceded with a Confonant or by it felf. In the Bale Alphabet this last Character countervails ang, when it is not a mute Confonant; but its figure has no recemblance to any one of our Letters. Thus the first Letter of the Hebren Alphabet, which is Aleph, ferves as a mute Confonant, in relation to which they place the Points which are the Vowels; and it is probable that the Aleph was anciently pronounced, like the Alpha of the Greeks, which has taken its name from the Aleph.

its mame from the zuepo.

The Stamele Pronunciations are very difficult for us to imitate, and they correspond so ill to most of ours, that of ten Stamele words written in French Charles on the control of the Stamele words written in French Charles on the Stamele words with the Stamele words wi racters, and read by a Frenchman, there will not perhaps be one, that is known and understood by a natural Siamele, what care soever is taken to accommodate

our Orthography to their Pronounciation.

They have the r, which the Chinge's have not. They have our v Confonant, but they pronounce it frequently like the w of the High-Germans, and formetime like the w of the English. They have likewife the ng of the Germans, which we have not : For the Germans pronounce Engel, for example, after a manner that we hardly apprehend, and which is only a g pronounce before the e, and the is as before the a, but very foftly and much through the Nofe.

They have a middle Pronunciation between our two Pronunciations of 30 and jo, and from hence it is that the Europeans do say sometimes Camboja, and fometimes Camboya, because they know not how to pronounce these forts of words

exactly after the Siamefe.

Tis the same as to the word Kiai, which fignifies, Heart It is not known whethe tame as to the word Kias, which lightless, treat it is not known whether they rather fay Kiai than Ciai, pronounced after the Italiam manner, becaule that indeed they do not exactly fpeak either the one or the other, but fomething which partakes of the one and the other.

They have our Afpiration, which yet they pronounce very foftly, and when the contract the contract the contract to the co

they put the Character thereof before a Consonant (which the French tongue never permits) they do it only to weaken the pronunciation of the Confonant and in general they speak so softly, that it is not known often whether they

pronounce an m or a b, tio or tchio.

They have not our " Vowel which the Chineses have, but they have our e, fuch as we pronounce it in our Monofyllables, ce, le, me, que, fe, te: but this e suffers no elision in their Tongue as in ours. I dare even affirm that they have no other e than this, not in the Cries of the Pagayeurs, he, he, be, which they pronounce as we would pronounce he, hen, hen; nor in the Syllables which end with a Consonant, like this, Pet, which fignifies a rough Diamond, and which they rather pronounce peut, than pet.

They have an a extreamly short, which they write with two points, thus: and which they pronounce clearly at the end of the words, as in this Baile world word Pra, which they give to whatever they honour most; but when this a is found in the middle of a word, it passes to quick that it is not discerned, and that it answers to our a mute. Hence it is that the word Pa-ya, which we have translated by that of Prince, and of which the first a written with the two points, is pronounced Peya, or Pia, though in the Relations we find it written Peja and Paja, by the confusion of the e mute with the n, and of the y with the j confonant. This marked with two points suffers no other Letter after it in the same Syllable.

it in the same Syllable.

Tis a thing very singular that in the Syllables which end with a Consonant, they pronounce it not after our manner: but their tongue remains fix'd either to the palate of the Mouth, or to the Teeth, according to the nature of the Consonant; or rather their Lips remain shut: and it is thus that they terminate these forts; of pronusciations; I mean without tidolosing the Tongue, and opening the Lips again. They cannot pronounce an Aspirate at the end of a Syllable, was it in the middle of a word. They pronounce Perpayatons, though they write Petchpayatons. The Convent of the Palace they call var Si-Sarapet, though they write Sarapetch. Thus when they would say me aid they said many but they opied not their Lips again to sinish after our manner the pronunciation of the 6. By the same reason they will pronounce an n for an x and for and, out they open a not their Lips again to main after our manner the productiation of the b. By the same reason they will pronounce an n for an n and for an l, at the end of a word, because that at the end of the words they unloose not the Tongue from the Palate; and it is necessary to unloose it in the pronuctation of the r or of the l. for in that of the late. Tongue cleaves not to the Palate at sides. They will write Tahar and Mar, and they will say Tahah

They have a great deal of Accent, like the Chinefer: they do almost sing in They have a great deal of Accent, like the Chinefer: they do almost sing in Speaking: and the Siamese Alphabet begins with fix different Characters, which do all countervall only a K, more or less strong, and variously accented. For do all countervail only a K, more or lefs ftrong, and variously accented. For though in the pronunciation the Accents be naturally upon Vowels, yet they do mark forde by varying the Confonants, which otherwife are of the fame weight. From whence it is perhaps permitted to conjecture that they writ at first without Vowels, like the Hebrens, and that at last they have marked them by some strokes foreign to their Alphabet: and which for the most part are placed out of the rank of the Letters, like the Points, which the modern Hebrens have added to their ancient manner of writing. Whoever therefore has learn'd to give the true Accent to the fix sirst Characters of the Samele Alphabet, easily propounces the rest a because that they are all ranged with that art, that in by pronounces the reft; because that they are all ranged with that art, that in their pronounciation it is necessary to repeat almost the same Accents. They read the Balic Alphabet after the same manner, save that they give it only sive read the Balie Alphabet after the tame manner, tave that they give it only five Accents, which they repeat five times in the twenty five first letters, the eight last having no accent. And as far as I can judge of the Hanscrit by the Alphabet, which Father Kirker has given us thereof in his China Ilinstrata, this Tongue, which is the learned Tongue of the Magni's States, has five Accents like the Balie Tongue: for the Characters of its Alphabet are divided by fives.

#### Of the first Siamese Alphabet.

THe first Alphabet is of Consonants, which are thirty seven in number, and which I have placed in their natural order, with their value at the top, as far as to me has been possible. This double stroke (II) which is found fix times, is to denote the places where they stop in faying their Alphabet by heart; for it is a kind of Song. They say seven Letters at first, and then the others fix and fix.

The little stroke which is between the names of two Letters, denotes that they pronounce the Letter which precedes the stroke very quick, and that it makes a shank with the following Letter, when they say their Alphabet by

I have

: I have put an h after the K, its to show that the K must be pronounced with an Aspiration after the German way, and not so simply as our c hard: and where I have put two pp, it is to denote a p harder than ours.

The Ngo is pronounced before all the Vowels, like our g before the a, the o and the w, with this difference, that it is pronounced a great deal more carelessly, and altogether from the Nose, which gives it something of n at the beginning of its pronunciation. At the end of the words, it is pronounced without loofing the Tongue from the roof of the Mouth: they will fay Tong,

and not Tongue.

The three first Letters of the second division are pronounced between the quio

and cio of the Italians.

Tome II.

The go is pronounced after the Castilian manner by lisping.

The do which is in the third division, is pronounced like a to at the end of

words, and they have no other to final.

They have a double 10, the one at the second division and the other at the fifth: they pronounce them between our 30 and our 30, and there is no other difference between these two Letters, save that the last 30 which is that of the fifth division, is the true to final; they place it after the Vowels to make Dipthongs, though they ceafe not fometimes to place the other there, but Dipthongs, though they ceale not fometimes to place the other there, but through ignorance: for this Orthography is not in their Alphabet, where all their Dipthongs are. Now these by are however thought Consonants, as the is thought a Consonant in German and Spanish in these Dipthongs ja, ja, ja, ja, with which a Vowel which preceeds them in Verses, is not consonanted, but makes its Syllable apart. And yet though the Stamels put the 30 among the Consonants, they so clearly perceive that they found like Vowels, that in mute at the head, as they do at the head of the words, which begin with the Vowel: this is not regular, but they are all incapable of all these little attentions.

The No which is the last Letter of the third division is not pronounced at the end of words like our n, but like the n of the Gascon; and Spaniards. I have writ it with an " fimple, in writing the Siamefe words with our Characters; and fometimes to avoid ill agreement, which these words caused with those of our Language, I have thereunto added an e feminine, although this be ill, in that the Stamefer pronounce it not, feeing that they unloofe not not the Tongue from the roof of the Mouth, in pronouncing their " at the end of

The Vo is pronounced indifferently like our v Confonant, or like the w of the High-Germans, which is a b pronounced foftly, or without cloding the Lips, or in fine like the w of the English, that is to say like our on in the word oni. The Vo is likewise put after Vowels to form certain Dipthongs, in which case it is pronounced like our on.

The three 50 of the last division, have the accent somewhat more sharp one than the other, the Voice ascending gradually to the last.

The ho is put sometimes before the Consonants, to mollifie the pronunciati-

The o is a muteConfonant, as I have faid, which ferves to place the Vowels, as the Aleph serves to place the Points of the Hebrews, when the Syllable begins with a Vowel, or when it is only a Vowel: but the obecomes a Vowel, and is pronounced like our o when it is preceded by another Confonant, or by itfelf.

#### Of the second Siamese Alphabet.

He fecond Siamese Alphabet is that of the Vowels placed in respect of the I first Ko, as they are placed in respect of every other Consonant, and in respect of the o mute.

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Tome II.

Eu, ou and ai are simple Pronunciations, though we write them each with

Ai is a Dipthong and not a fingle Vowel, and is pronounced as in our excla-

Aou is also a Dipthong, which must be pronounced as au in Italian and in mation of complaint, ai. Spanish; but the Siamese Orthography is altogether fantaltical: for it answers

Mm is a Syllable and not a Vowel. The a is there clearly marked after the  $K_0$ , and that little a which is at top, denotes the a final. They have put the m final among the Vowels, because they have marked it above the Conformants, after the manner of the Vowels. They do sometimes also place at the end of the Syllables and Words, the a which is in their Alphabet of Conformats.

The last a which is marked with two points is an a very short, which suffers no other Letter after it in the same Syllable, and which is pronounced only at the end of words: for in the middle it is frequently loft, and becomes our mute, fuch as the first e of purete: wherefore in several Stanes words I have omitted this a; and sometimes I have written it with ane. Thus I have put Jabbas, for Jecabas, Blat or Belat for Balat, by reason that this Orthography more nearly appropriate their Decomposition. more nearly approaches their Pronunciation.

The Character of the fift a is always joyned to the Confonant, and is always placed after it, its an a long, which is as two, as we anciently write aage

The four following Vowels are placed always over the Confonant, and the long are marked with a stroke also. The two Vowels after, viz. the fixth and the feventh are placed underneath, and the feventh is only the double stroke of the fixth. The five following are placed before the Confonant, and the song

only the emorried outpet of the Asset Characters, which answers en as I have said, and the is only the e short redoubled. s is always put before the Confonant, and the a after, according to their Na-

The m final marked with a little o is placed always on the Confonant, and is

pronounced without opening the Lips. The 4 fhort and sharp, marked with two points, is always put after the Confonant, and suffers no Letter after it in the same Syllable.

fonant, and fuffers no Letter after it in the fame Syllable.

All these Vowels thus disposed, sometimes above, sometimes below, sometimes before, sometimes after the Consonant, are always pronounced after it, as I have already declared. This would be a trouble to us, when the Syllable begins with a Mute and a Liquid, like pret, the Letters of which they would begins with a Mute and a Liquid, like pret, the Letters of which they would range thus eprt, so that we could not know if it were necessary to say pret or pert: but they always pronounce the Liquid before the Vowel, saying pret, and pert: They cannot pronounce pert but pent: they will also say pent for pelt, and they will range the Letters in this manner, sept, or rept, or rept, The expensions itself always after the Consonant, which follows it in the writing, leaves not any doubt to them in this Orthography. For pnet, or pent, somet or leaves not any doubt to them in this Orthography. For puet, or pent, pues or pemt, they will always pronounce pent and pemt.

#### Of the third Siamese Alphabet.

His Alphabet is of Dipthongs, most of which are truly orthographized and ease to read: but some of which are pronounced after a manner very different from their Orthography. We shall observe in these that the Vowels are pronounced according to their disposition; those which precede the Consonant pronounced for a laboratory and the consonant pronounced for the their properties. pronounced first, altho they nevertheless are pronounced after the Consonant. Whence it appears, that deligning to place certain Vowels before the Conformant, they have chosen those, which in the pronunciation of the Dipthongs are first\_pronounced. In this Alphabet there is also some Syllables, which are not Dipthongs.

## Of a fourth Siamese Alphabet, which I have not graved.

This Alphabet is of the Syllables which begin, and which end with Condonants, and it teaches two things. First, there are two Vowels, an  $\alpha$  and an  $\alpha$ , which must never begin the Syllable nor end it, but be always beand an e, which must never begin be symbol to a fair it, but be always netween two Confonants. They have a particular Accent. The a is marked with a finar accent, oftentimes very much lengthned, and always placed over the first Confonant of the Syllable; and the e is marked with a double over the first Consonant of the Syllable; and the o is marked with a double Accent sharp", which they put likewise over the first Consonant of the Syllable. When in the pronuctation the Syllable ends not with a Consonant, they put the o mute in the place of the second Consonant, as may be seen in the Syllable Ko in the Alphabet of the Siams(o Dipthongs: yet they sometimes dispose therewith after the accent, which marks the o, Sometimes also instead of the double accent, which marks the o, they put a little o over the first Consonant, and sometimes also are proposed in a second of the which marks the o, they put a little o over the first Consonant, and sometimes they put nothing; and as often as two Consonants make a Syllable, it is the o that must be understood. The second thing which this Alphabet teaches, are the sinal Consonants, viz. the sirst let mgo, the do, the mo, the mo, and the bo. As often as they end a Syllable, with any other Consonant, it is a fault against their Orthography. They pronounce these only at the end of the Syllables, and they never show their Children any Syllable to read, which ends with any other Consonant, than with those I have mentioned. It is true that Syllables, and they never mow then Children any Syllables of early, which ends with any other Confonant, than with those I have mentioned. It is true that they pronounce the do like a to, and the bo like a po at the end of some Syllables and Words.

#### Of the Balie Alphabets.

They are not difficult to understand, after what I have related of the Siamele: The stroke shows that the two Letters between which it is found, do make a halt in the pronunciation. The five which follow the twentieth are not now of different value from the five, which immediately precede them: but perhaps this was otherwise, when this Tongue flourished.

#### Of the Siamese Cyphers.

Have nothing to fay of the Siames Characters, save that an experience dman informed me that they resembled those, which he had found on some Arabian Medals between four and five hundred years old. The Stamese names of the Powers of the number Ten are these.

Noee, which they pronounce Noai, fignifies Number.

Sib, which they pronounce Sip, fignifies Ten, and Tenth. Roi, which they pronounce Roe, fignifies a Hundred, and Hundredth. Pan, a Thousand.

Meuing, Ten Thousand.

Seen, or Sen, an Hundred Thousand, or Hundredth of Thousand. Abraham Roger, p. 104. Of the Manners of the Bramines, says that at Paliacata, Lac fignifies an Hundred Thonsand ; and Bernier says Lagne, in his Relation of the Gentiles of In-

Cot, a Million. Abraham Roger in the before-quoted place, faith that at Paliacata, Coti fignifies Ten Millions.

Lan, Ten Millions.

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The numbers are plac'd before the Substantive, as in our Tongue: but these numbers are put after the Substantive, to fignifie the names of Orders. Thus Sam Deuan fignifies Three Months, and Deuan Sam the Third Month.

#### Of the Pronouns of the First Person.

Ou, ca, raou, atamapap, ca Tchaou, Ca ppa, tchaou, atanou, are eight ways of expressing I or we: for there is no difference between Singular and Pluŗal.

Con, is of the Master speaking to his Slave.

Ca, is a respectful term from the Inferior to the Superior, and in civility amongst equals: the Talapoins never use it, by reason that they believe themselves above other men.

Raon, denotes some superiority or dignity, as when we say We in Procla-

Roub, properly fignifies body, 'tis as if one should say my body: to say me, tis only the Talapoins that use it sometimes.

Atamapapp, is a Balie term, more affected by the Talapoins than any other. Ca Tchaon, is composed of ca, which fignifies me, and Tebaon, which fignifies Lord; as who should say me of the Lord, or me who belong to you my Lord; that is to say, who am your Slave. The Slaves do use it to their Masters, the common people to the Nobles, and every one in speaking to the Tulapoins.

Ca-ppa Tchaon, has likewise something more submissive.

Atanon is a Balie word, introduced within three or four years into the Siamefe Tongue, to be able to speak of himself with an intire indifference, that is to fay without Pride and without Submission.

#### Of the Pronouns of the Second and Third Persons.

Perfons for the Singular and Plural Numbers: but oftentimes they make use of the Name or Quality of the person to whom they speak.

Teu, is a very honourable term, but is used only for the third person, or for the Talapoins in the second, that is to say in speaking to them.

Tan, is a term of Civility amongst equals. The French have translated it by

the word Monsieur, Sir. Eng, to an inferior person.

Man, with contempt.

Otchaou, to a mean person unknown.

#### Of the Particles which supply the place of Conjugations.

and raou pen, fignifies I am; eng pen, thou art, and he is. And again, raou pen, figuities we are. Tan tang lai pen, ye be. Kon tang lai pen, they are. Tang lai figuities all, or a great many; and it is the mark of the Plural. Kon figuifies People, as who should say the People are, to say in general, they are, or he is.

The Imperfect is verbatim at this time, I being, or time this, or when I being,

The Imperiod is vertoating at this time, I period, to time this, of mount 2 longs, to fay I mas, mount now pen. Mount fignifies time, or when, nan fignifies time. The Perfect is denoted by dai, or by leon, and fometimes by both. But dai is plac'd always before the Vetb, and leon after: Thus dai pen, or rao dai pen, I

have been, or rather raon pen leon, or rather yet Raon dai pen leon. Dai fignifies

of the Kingdom of SIAM.

to find, leau signifies end. The Pluperfect is composed of the Particles of the Imperfect, and the Perfect. Thus to fay, when you came I had already eaten, they will fay, mona tan ma, raou dai hin sam red leon; that is to say word for word, time, or when you come, I already to eat end. M. fignifies to come, and with other Accents and another Orthography, it fignifies Hofe and Dog. Kin fignifies to ent, famored fignifies to ent, and this term is added to the Perfect to form the Pluperfect.

Tcha is the fign of the Future : raon chapen, I shall or will be; this Particle

always precedes the Verb.

Tome II.

Hai denotes the Imperative, and is put before the Verb. Tent also denotes it, and is placed always at the end of the Phrase: haikin eat, or rather kin tent, or rather hai kin tent. Hai properly fignifies to give, and is used likewise to fignifie to the end.

Ren is the Note of Interrogation. Kin le ou reu? Hath he eaten? or have you eaten? Leon, as we have faid, is the fign of the Perfect, ren is plac'd always

at the end of the Phrase.

To say I did eat, they say I would eat, tcha erai ken. Tcha is the sign of the future, crai fignifies to will, and so tcha crai fignifies I would, and kin fignifies to

To fay if I was at Siam, I should be satisfied, they would say word for word, if me to be City Siam, my heart good much. Heart good fignifies coment, and the Verb I (hould be is there understood.

#### Of the Construction.

They have Pronouns demonstrative, and not relative. They have Preposi-The Nominative always precedes the Verb, and the Verb precedes the go-

The Preposition precedes also what it governs.

When two Substantives come together, the latter is taken in the Genitive. Van athit, day of the Sun, athit which fignifies Sun is in the Genitive.

The Adjective is always after the Substantive, and the Adverb after the Ad-

jective, or after the Verb to which it refers.

Their Construction is always shorter than ours, because it wants Articles, and a great many Particles which we have, and oftentimes a Verb; but the turn of their exprefiions feems long to us, if we translate them word for word. To (ay, How is this thing named? they fay, ny schen rai, that is to say verbatim, this thing name how? where they suppress the Verb. But to say, bring me that, they will fay, go, take that, and come. To fay, give some Rice to the Child, they say, take Rice, give Child to eat: The Construction is always short, but the turn of the expression is long, because they express all the circumstances of the Ac-

In naming particular things, they do almost always make use of the general word, to which they add another word for the difference. They say, Had of Diamond, to fignifie a Diamond; and they have two words, the one for the Rough Diamond, per, and the other for the Diamond fet in work, Ven: house

pet, houn ven. Houn fignifies Head.

To fay a Man, they fay pon tchay, to fay a Woman, pou ying, which they pronounce almost pourging, and pout fignifies person: to name the Beasts, they put the word body; body of an Ox, body of a Cow. Loud; fignifies Son, Louk Schoon, Joing Son, that is to fay Daughter; Schoon in Stamely, fignifies Joing, as nang in Balle. To denote the Female amongst the Animals, they use the word mia. They joyn the word ban, which fignifies Village, to almost all their Names of their Villages. Ben-pac-tret sai, Village of the Month of the great Strait. Banc-pac-tret-ne, Village of the Month of the little Strait. Ban-wat Village of the Convent. Banc pacnam, Village of the Month of the Water.

The Pater Noster, and Ave Maria in Siamese, with an Interlineary Translation.

Po raou you Savang. Scheu Pra hai prakot touk heng kon tang-lai touai Pra pon Meu-ang Pra co hai dai ke raou. Hai leon ning tchai pra Meuang Pendin semo savang. Ahan raou tonk Van co hai dai ke raou Van ni, co prot bap raou, semo raou prot pou tam bap he raou. Ta hai raou tok nai kouan bap: hai poun kiac anerai tang-poang. Amen.

#### The Ave Maria.

†Nang is that A VE Maria Ten anifong, Prayou heng † Nang. Nang foum-boni yingkona Balie word.

Nang Tang-lai. Toni lank ontong, heng nang Pra, Ongkio Tefu foum-boni which fignifies ympkena Tanglai. Sancla Maria Me Pra thoni ving von Pra pro raon kon bap young, and young, and teit bat-ni le mona raon \* tcha tai. Amen.

to Nouns Masculine renders them Fe-

Tis the Latin Word. A Smoaking Instrument made use of by the Moors, which are at Siam.

They have a glass bottle of the figure of our Caraffas, excepting that it has a foot to be more firm, they fill it up half with water, and into the neck, which is all of a bigness and very long, they put a filver Pipe wound about with a Fillet, to the end that it close the better: but this Pipe enters only the length of two Fingers breadth, though it be more than half a Foot long. At the upper end is a little Cup, either of Silver or Porcelane, which has the bottom perforated to communicate with the Pipe; and in this Cup is the Tobacco, on which they put a live coal. From the fide of the Pipe there proceeds another much less in form of a Spout, or rather it is the little one which enters into the great one at the fide, and it descends within the great one, and as far as the great one it self, yet without filling the whole capacity thereof, but far as the great one in the finoak of the Tobacco, which is confumed in the Porcelanc Cup, may descend into the Bottle. In fine, to the inferior Orifice of the little Pipe, they put another little Pipa of Bambou, bound about also with a little Ribbon or black Silk, which descends into the water. Now he that would finoak, setting this glass bottle, or rather all this Machine which I have described upon the ground, puts into the superior or or the confined of the position of the superior origine of the which I have described upon the ground, puts into the superior origine of the Now he that would though, tetting this glass bottle, or rather all this Machine which I have described upon the ground, puts into the superior orifice of the little filver pipe, the end of a Bambou-slip, which though of one single shoot is sometimes between seven and eight foot long. The two ends thereof are garnished with Gold or Silver, and besides this one of the two is garnished with a little Chrystal Pipe, which he that smoaks puts between his Lips. From this manner it seems that in smoaking, he would attract to his Mouth the Water of the Bottle, by reason of the Communication that there is from the Mouth of the Bottle, by reason of the Communication that there is from the Mouth of the Smoaker to the Water of the Bottle, viz. through the great Bambou flip, thro the little Silver Pipe to which it joyns, and thro the little Bambou Pipe which enters into the Water, and which unites at the lower end of the fmall filver Pipe:but inftead of this, the exterior air not being able to enter into the Bottle, the Smoak of the Tobacco defcends along the great filver Tube, not only into the Bottle, but even into the Water, to infinuate it felf into the little tube of Bambou, from whence it afcends to the Mouth of the Smoaker. So that he who inventor ted this Inftrument has very ingenioufly apprehended that it would be more natural that the imoak should be drawn into the water, and from the water to the Mouth of the Smoaker, then that the water, which is heavier than the smoak, should yield to the force of this Attraction.

Sometimes there are feveral finall Tubes round the great one, to the end that feveral persons may smoak in company with the same Instrument, and the better to fettle it, it is placed on a copper Balon, covered in that place with a little piece of cloth, which hinders the foot of the Bottle from flipping over

#### The Chefs-Play of the Chincies.

THeir Chefs-board is composed like ours of 64 squares, but which are not di- A Description
thinguished by white and black. Neither do they place their pieces in the of their Description. Squares, but at the corners of the Squares, that is to fay at the points where number of the lines of the Chefs-board do interfect. Moreover the Chefs-board is divi-their Men. ded into two halves, thirty two Squares for each of the two Players, and thefe two halves are feparated by a space, which they call the River. It is about the bigness of a row of Squares, and runs not from one Player to the other: but after the same manner wherewith the pieces are ranged on the Chefs-board. Tis not therefore the Squares which are the Points of their game, but the corners of the Squares. And so they have nine Points on each line, and there are five times nine or forty five on each half of the Chess board; 1 have marked

them with circles. They have thirty two Men like us, fixteen for each Gamester, the one white, the other black; but these Men are not all the same as ours, and they dispose them not altogether after the fame manner. Every Gamefler has a King and no Queen, two Guards, two Elephants, two Horfemen, two Waggons. two Cannons, and five Pawns. Each Gamester places nine Men on the first Line of the Chefs-board, which is on his fide, at the Points where this fift Line is divided, and on those where it is terminated. These nine Men are, the King, whom they place in the middle; the two Guards which are next him, the one on the right and the other on the left; the two Elephants which are next the Guards, the one on the right and the other on the left; then the two Horfemen, the one on the right and the other on the left; then the two Waggons which take up the two corners of the Chefs-board. The two Cannons are placed in the fecond Point before the two Horfemen, and the Pawns in the 10th third 16th fewerth, and pink Paints of the fewert Line them. first, third, fifth, seventh, and ninth Points of the fourth Line, that is to say on that which is our Chefs-board, separates the first Points before the Men,

from the second. The King makes only one step as in our Game, but he cannot do it every The motion way: he goes forward, or backward, or fide ways, as do our Rooks, but he of their Men. marches not bias wife like our Bishops. Moreover he cannot fit out of a Square, which is his field of Battle or his Palace, and which contains four Squares, which on our Chefs board are those, where we place the King and

Squares, which on our Chefs-board are those, where we place the King and Queen, and the Pawns of the King and Queen.
The two Guards do not move also our of the Square, and they never make more than one step, but bias-wise like our Bishops, and not otherwise.

The two Elephans do move after the manner of our Bishops, but they do always make two steps, and never more nor lefs, and they pass not the Riverthey enter not into the Enemy's Camp. I understood that the Elephant is called sti in Arabia, and that it is from this word sti that whate taken that of sol of Bishop for that of our Chefs-men which answers to the Elephant.

The Hosseman skips two points like our Knight, the one of which is according to the march of our Rooks, and the other is according to the walk of our Bishop. But their Hosseman leaps not over the other Men: it is necessary that he have the way open, at least on one side. I explain my self. The walk of the Hosseman is composed of two steps, as I have faid, the one of which is ac-

the Horseman is composed of two steps, as I have said, the one of which is according to the march of our Rook, and the other according to that of our Bishop. It is therefore necessary that the first step of the Horseman, be free

in one fenfe, that is to fay, either according to the march of the Rook, or according to that of the Bilhop. Befides the Horfeman may pass the River, and the breadth of the River is esteemed one of the two steps that he must

The Waggons march like our Rooks, and may pass the River. The Cannons have also the walk of our Rooks, and may pass the River.

The Pawns do only make one ften as amongft us, and they never have the liberty of making two, not even the first time that they are used. They may pass the River which is always reckoned for one step, and when they have pasfed it, they may move not only forwards, but also sideways like the Rook, and never bias-ways like the Bishop, and like our Pawns when they take, nor also backward, not even when they have been at the end of the Game, which we

The defign of the Game.

men do take.

can making a Queen.

f The delign of the Game is to give Check-mate, as amongft us; and the King is obliged amongft them, as amongft us, to free himfelf from Check, either by removing place, or by covering himfelf from Check.

Every Man takes, by putting it fell in the place of the Man which it takes, provided that the walk from the one to the other be free.

There is only the Cannon which requires that there be a Man between it and that which it robes. Cannon which requires that there be a Man between it, and that which it takes, and it matters not whether this Man be Friend or Enemy. Tis faid that it ferves as a carriage. Thus it is necessary that there be a Man between the Cannon and the King, for that the Cannon gives Check to the King; and if the Man which is between both, is on the King's fide, he whose King is in Check, may free him from Check by taking away this Man, and by expofing the King before the Cannon.In a word one Cannon may ferve as a carriage to another

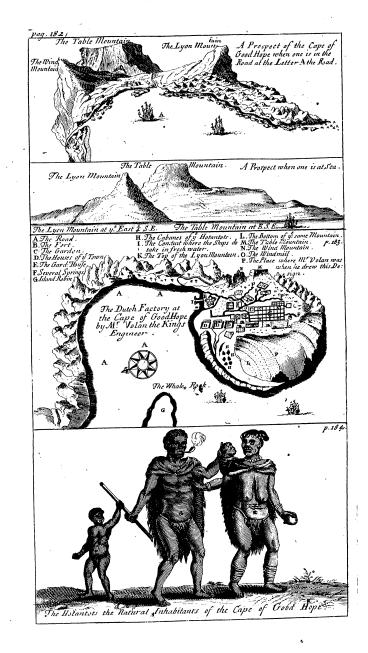
Their Pawns take not bias ways like ours, but in the natural sense of their Cannon. walk, which is forward, when they have not paffed the River: and forward or fideways according to the march of our Rook, when they have paffed the

One cannot put nor leave his King opposite to the other King, when there is not a Man between both, he that should do it, or would take the Man that is between both, would himself put his own King in Check, which cannot be done, yet the King can take nothing but what is at a point near him, and according to the march of our Rook, and not according to the march of our Bishop.

## The Abacus, or Counting-Table of the Chincfes.

He Counting Table which the Chinefes use, is a wooden frame of a square 1 figure, but much longer than broad. It is divided into two long squares, with a flat flick of Lath parallel to the two great fides, and terminated at the two little ones. These three parallel flicks, (I mean the two great fides of the frame and the middle flick) are threaded at right Angles, by several small flicks of wood, or copper wires, which are all parallel to one another, and parallel to the two little fides of the Frame, and placed at equal diffances for Decency. And in fine, on each of these sticks are put seven Beads or Balls, two on one fide of the middle piece, and five on the other, which will flide, or come along the Sticks; that is to fay, to approach to, and remove from the middle Lath, or Partition.

This Infrument, which is composed at most of Twenty, or Twenty five flicks, for the number thereof is uncertain, is laid flat, and not on the fide, and one turns to him the ends of those (ticks, which do each bear five Beads, or Balls. The way of using it is grounded, 1st. On this, that the Beads do fignific only when slid near the middle Lath or Partition 24. On this, that each of the five Beads flands for a point, and each of the two Beads five points, as



often as these Beads do stand for any thing, that is to say, as often as they approach them near the middle Partition, 3<sup>4</sup>. On this, that the sticks are reckonsed, from the right to the left, and do stand for Number, or Uniter, Tens, Humared, and Thoulands, and all the other powers of the number see in their natural Order. In a word, one may at the same time denote several sums in divers places of this Instrument, by taking such sicks, as one will to denote Unites, and the next on the left to denote Tens and Hundreds, and so such that know how to reckon with Counters. The Swiftness with which I have seen the Chineses, which are at Siam, make use thereof, is inconceivable; but they say that it is an effect of two years Apprenticiblip. The Instrument may be more simple if one will, by putting only soar Beads on one side, and one on the other, because that this is sufficient to mark to nine on each stick, which is all that is requir'd, and in this simplicity was the Roman Instrument, which in my Relation I have mentioned, that Pignorius has given us. From whence the Learned may, at their pleasure, draw their Conjectures, to decide which of these two Instruments is probably the Original, either the most compound, or the most simple. The Simple seems a Correction of the Compound, the Compound seathers in practice.

#### Of the Cape of Good-Hope.

Have given three different Prospects thereof, two of which are entirely new, and the third, which is that whose place of view is in the Road, is copied after a very good *Datch* Map.

copied atter a very good Emen Map.

Every one knows that the Dutch have an important Establishment there, which secures their Navigation from the East-Indies. The Fort which defends it, would perhaps be no considerable thing in Europe; but it is sufficient in a Country, where there is no Neighbour to fear, and where there can go no confiderable Enemy, but from a great distance, and consequently with a great deal

or difficulty.

The Company's Garden, the Platform whereof is in one of these Prints, is very spacious, as may be judged by comparing it to the Fort: And tho the Soil be not over-good, it plentifully produces Coleworts, Citruls, Oranges, Pomegranets, and, in a word, Pulse and Fruits, which keep at Sea, and of which the Mariners are desirous in long Voyages. In a corner, and under a shelter, I saw a Camphire-Tree, an European Fig-Tree, and a Shrub about two Foot high, saw ich was faid to be that which bears the Tea, and which I had taken for a young Pear-Tree. It had neither Flowers nor Fruit, and very sew Leaves, Close by, and under another shelter, were two or three Foot of Anana, and this was all the Rarity they show'd me for the Country. The Grape is not more rare, but there is only that which the Hollanders have planted there. The Wine thereof is white, and very good. Some of our Crew went to the top of the Table Mountain, to seek some extraordinary Plants, but they found none. Nevertheles, upon a strict Scrutiny, there is not any that has not something particular, which the Plants of these Countries have not. The shells there found are not the Remains of the Deluge, as some have conjectured. The Birds, the

Apes, and the Hamter, do bring them, and leave them there. The Walks of the Garden do almost spontaneously maintain themselves, because that the Soil produces only Moß if it is not cultivated: Besides the nearners of the Garden has nothing, which savours not a wife exconomy, nor any thing which savours a too great negligence, like a Kitchen Garden of Merchants, more wedded to the profit, which they reap thence, than to the Plearnants.

fures, which they could not enjoy:

The water which waters it through feveral little Channels, enters therein at the going out from a Mill which it turns, and underneath the Garden, it ferves for blanching. They only divert a part thereof, which is conducted to a Ciftern, which is on the bank of the Road, and where the Ships do go to

The Garden is divided into feveral great Squares, almost like the Plot of the take in their fresh water. place Royal. They are encompatied with Pales, to fielter them from the Winds, which are fometimes furious enough to wreck the Ships in the Road, if they have not good Anchors and good Cables. These Winds are formed of the thick Clouds, which do fometimes affemble between the Table-Mounrain, and that which is called the Mountain of the Wind, by reason of these Storms. A walk of Citron trees and Orange trees planted in Earth, which go from one end of the Garden to the other, do altogether refent their fury. Next to this the fituation of the Garden, and that of the Village which is a little nearer to the Road, are very good; for they are wholly expeded to the Sun, and theltered from the South Winds, which are the cold Winds of this Counand theltered from the South Winds, which are the cold Winds of this Counand the control of the Counand the control of the Counand the control of the Counand the country of the Country try. The Hollanders which are fetled there, do fay, that if the South-well Wind blows not during their Summer, which is our Winter, the Diftempers of the Lungs are frequent and dangerous.

The short stay that I made, permitted me not throughy to instruct my self concerning the Manners of the Hotamets, the natural Inhabitants of the Cape, though in the extream Simplicity in which they live, this can be no long fludy. They are called Horantot, because that when they dance, they always in finging fay this word Hotantor. The Love of the Tobacco and Brandy, which the Strangers offer them, and which has made them to receive the Hollanders into their Country, makes them to dance fo long as one will, that is to fay, to flamp fometimes with one Foot, and fometimes with the other, as he that treads the Grapes, and inceffintly, and vigoroully to fay, Hotantot, Hotantot, but with a very low voice, as if they were out of breath, or that they fear'd to awaken anyone. This mute Song has no diverfity of Tones, but of Measure: the two first Syllables of Hotamor are always two Blacks, or Crochets, and the

last always a White or Minime.

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They go all naked, as may be feen in the figure, which I have given. They have but one skin over their Shoulders, like a Cloak; yet do they quit it at every place; and then they have only a little Leather Purfe, hung to their Neck by a ftring, and a piece of a Skin a little bigger than one's Hand, hung before, and fastned with another string round their body: but this little piece covers them not, either when they show themselves side ways, or when they

do make a brisk motion. Their stature is acceptable, and their gate more easy, than can be expressed. They are born as white as the Spaniards, but they have their Hair very much fizled, and Features participating somewhat of those of the Negros: and befides they are always very black; because that they grease their Body and Face. They do also greate their Head, and we finell them twenty Paces, when they have the Wind. Our men gave them Pots, and Cauldrons to bath in; and before all things, they took the Fat by hands-full, and herewith anointed their whole Body, from the Head to the Feet. The Greafe defends them from the Air and the Sun, renders them found and well disposed, and they prefer these natural Advantages before Sweet Scents and Pleasure. They are so active, that feveral among them do out run Horfes. There is no Brook which they fwim not over. They are expert in drawing the Bow, and throwing the Dart; and they have Courage even to Undauntednes. They do sometimes worst a Lion, provided they have Skins enough, and Furniture enough to garnish their left Arm. They do thrust it thus into the Throat of this Animal, and they pierce it with a Dart or Knife, which they will have in their right hand. If they are two, the one kills the Lion, whilft the other amuses him. If they are feveral, and they have nothing to fecure themselves from the Claws of the Lion, they fail not to expose themselves all at once: The one of them generally perifices, but the Lion perifies likewife by the Blows which

the others give him. Sometimes they are all faved, and they kill the Lion. Their Wives do likewife greafe themselves, though they affect some Ornament; as to fasten little Bones and Shells to their short Cottony, and greaffe Hair. They also have Necklaces with divers colors of Glass, Bone, or such other matter, according as the Foreigners do give them, or fell them to them. On each Leg they have fifty Rings of Leather, which do beat one upon the other, and make some Noise when they dance, and which defend them from the Briers, when they go to get Wood: for this care concerns them, and not

their Husbands. The Men and the Women did eat Guts, almost without cleansing them, when our men presented them therewith, and they did hardly put them a moment on the Coals. If we offer'd them Brandy, they would gather up the first Shell, they found on the ground to receive it, and after having blowd therein, they used to drink in it. They cat their Lice, as well as the Cochinchinese; and when we thought it strange, they answer'd pleasantly, that 'tis because their

Tome II.

They lodge under little Huts made of Branches, or great Bulrush Mats, the top of which hardly reach'd to my middle; and to me it feem'd that I could not lye therein, my whole length. Under these Mats they make a hole in the ground, and in this Hole, about two Foot deep, they make their Fire, not caring for the Smoak, whereof their Huts do not empty themselves. They live on Hunting, Fishing, Milk and the Flesh of their Flocks.

In this Poverty they are always merry, finging and dancing continually, livin this Poverty they are any nearly, mighting and coatening of silver, only as far as it is necessary for them to buy a little Tobacco and Brandy; a Corruption which the Foreign Commerce has introduced into their Cuffoms.

As some amongst them were exercising themselves, in throwing the Dare before us, I offer'd them five or fix Papers of Necklaces with Beads of coloured Glafs 3 and they all fo exactly feized my Hand, that I could not open it to let go the Necklaces, and I could not befides explain my felf unto them. I was fometime in this perplexity, till they perceived that they must fet me at Liberty to obtain what they defired. They love thefe Necklaces for their Wives, and when we had fet fail again, I understood that a Laquais of ours had fold one for a Crown to one of them. The little Money they have, and of which they have little effectm, is the Wages for the Service which they render fometimes to the Hollanders, and to the other Foreigners, which land at the before us, I offer'd them five or fix Papers of Necklaces with Beads of colou-

der sometimes to the Hollanders, and to the other Foreigners, which land at the Cape: but they care but little to work.

Every one has but one Wife, their Chief only has three, and Adultery among it them is punished with Death. They kill their Children, when they have too many: and as they marry those which they keep, exceeding young, there is seen among it them a great many Grand-Daughters, already Widows; who want a Joynt in their little Finger: For when a Woman lotes her Husband, she cuts off a lower of the little Finger, or of the fourth Finger, if the has so often been off a Joynt of the little Finger; For when a woman totes her Fusional, the cuts off a Joynt of the little Finger, or of the fourth Finger, if the has fo often been a Widow, as to have her whole little Finger cut off. Nevertheless the may dispense therewith, if the please and there are some Husbands who dispense not therewith, when they have lost their Wife. Most of them do make themselves Ridgils, to be more fit for the Women; and when the Age of renouncing comes, they make themselves entirely Eunuchs, to deprive themselves wholly of their Commerce, and to enjoy a more vigorous old Age. The Hollanders had educated an Hotantot Infant after the European manner, and had fent him into Holland. Sometimeafter they caused him to return to the Cape, where he might be useful to them amongst those of his own Nation. But so soon as he found himself again amongst them, he continued there, and renounced the Dmich Habit, and Manner of living.

They commit no Robbery amongst themselves, nor in the Houses of the Hol-Landers, where they are received without Care: and if the thing happens, they punish it with Death. Nevertheless in the Country, when they can do it sepunning it with Death. Is the trace of the property and that they think not to be discovered, they do fometimes aliassinate to rob; and do show that the Contempt of Riches is, amongst them, only the Harred of work.

Bbb

Hatred of work.

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The Dutch donominate their Chief, and this Chief is their Judge . but those who could not bear this Foreign Dependance, are gone further into the Coun-

try, to live with the other Caffres:

Some informed me at first, that they had no sence of Religion; but at last I understood, that tho they have neither Priests nor Temples, yet they make public rejoycing, which savor of Worship, at the New and Full Moons. I suffect that they have some Tincture of Manichessime, because that they acknowledge a Principle of Good, and another of Evil, which they call the Capatin below. The Capatin above, they say, is good, it is not necessary to pray to him, 'tis only needful to let him act freely, he always does good: But the Capatin below is wicked, he must be prayed to, and intreated to divert him from mischies. Tis thus that they speak, but it appears not in their try, to live with the other Caffres: divert him from mischief. Tis thus that they speak, but it appears not in their exterior Conduct, that they pray much. A Dutchman of Wit and Knowledge informed me, that amongst the Hotamots, he had found the Names of Ashabal

Rules of the Siamese Astronomy, for calculating the Motions of the Sun and Moon, translated from the Siamese, and since examined and explained by M. Cassini, a Member of the Royal Academy of Sciences.

Monfieur de la Loubere, the King's Ambassador extraordinary at Siam brought back a Siamese Manuscript, which comprehends the Rules for calculating the motions of the Sun and Moon, according to the method of that Country, the Translation thereof he likewise brought from Siam, and communications and the support of the sup

This method is extraordinary. They make no use of Tables; but only of the Addition, Substraction, Multiplication, and Division of certain numbers, of which we do not presently discern the Ground, nor to what these numbers

Under these numbers are conceal'd divers Periods of Solar Years, of Lunar Months, and other Revolutions, and the Relation of the one with the other. Under these numbers are likewise conceal'd several sorts of Epoches which are under these numbers are income conceard several torts of Expense which are not diftinguished, as the Civil Epoche, the Epoche of the Lunar Months, that of the Equinoxes, Apogæa, and Solar Cycle. The numbers in which the difference between these Epoches consists, are not ordinarily at the head of the Operations to which they serve, as they ought to be according to the Natural Order: they are often mixed with certain numbers, and the Suns or different productions of the Company of th Order: they are often mixed with certain numbers, and the Sums or differences are multiplied or divided by others, for they are not always fimple numbers, but frequently they are Fractions. fometimes Simple, fometimes Compound, without being ranged after the manner of Fractions, the Numerator being fometimes in one Article, and the Denominator in another; as if they had had a contrived defign to conceal the Nature and Use of these numbers. In the Calculation of the Sun, they intermix some things which appertain only to the Moon, and others which are not necessary, either to the one or to the other, without making any distinction. They consound together the Solar and the Lunifolar Years, the Months of the Moon, and the Months of the Sun, the Civil and the Astronomical Months, the Days Natural and the Days Artificial. The Zodiack is divided sometimes into twelve Signs, according to the number of the Month of the Year, sometimes into 22 parts, according to Artinical. The Localack is divided formerlines into twive pign, according to the number of the Month of the Year, formerlines into 27 parts, according to the number of the Days that the Moon runs through the Zodiack, and formerlines in 30 parts, according to the number of the Days, that the Moon returns to the Sun. In the Division of the Day there is no diffeour feel Hours; but therein is found the 11th the 703<sup>th</sup> and the 800<sup>th</sup> parts of the Day, which refulle from the Arithmetical Operations which are preferribed.

This Method is ingenious; and being illustrated, rectified, and purged from

Superfluities, it will be of fome use, being practicable without books, by the means of divers Cycles, and of the difference of their Epoches. Wherefore it is that I have endeavoured to decypher it, what difficulty foever I found at first, not only by reason of the confusion which every where appeared, and of the Names which are wanting in the supposed numbers; but likewise by rea-fon of the extraordinary names, which are given to what results from the Operations, of which there are more than Twenty which have not been interpreted by the Translator, and of which I could never have found the Signification, if I had not first discover'd the method; which has likewise evinced to me, that the Interpretation, which the Translator has made of three or four other names, is not very exact.

In this refearch I have first distinguished, and separated from the other numbers, those which belong to the Epoches, having observed that these numbers, are those which were given to add or to substract, either simply, or by dividing

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or multiplying them by certain other numbers.

Secondly, I have confidered the Analogies which refult from the Multiplications and Divisions of the other numbers, feparated from the Epoches; and it is in the Terms of these Analogies, that I have found the Periods of the Years, of the Months, and of the Days, and the differences of the one from the other; which the experience of things Aftronomical, and the occasion of divers opera-

which the experience of things ratifolionical, and the occasion of these operations which I have made, has given me to understand.

I thought that the Missionaries, to whom Astronomy gives admittance amongst the great and learned throughout the East, might reap some advantage Aftronomy, which might eafily be rectified and adapted to ours, with a little

altering the Method, by correcting the numbers which it uses.

I thought also that it would not be useless to reduce the Astronomy of Eu-I thought also that it would not be uselest to reduce the Aftronomy of Europe to this form, to be able to supply the want of the Tables which greatly abridge the work. This method would be much more easie to practise in the form of the Julian and Gregorian year of which we make use, than in the form of the Lunisolar year, which the Orientals observe: for their principal difficulty consists in reducing the Lunisolar years and the Civil Lunary months to the years and months of the Sun, which the form of our Kalender immediately gives us; and what has given me the most trouble, has been to find out the method which they use to reduce them, in which the several forts of Years, Months and Dure, which are supposed and fought, are not dissimptifical Months and Days, which are supposed and sought, are not distinguished. Wherefore the reason of the Explication which I give, and of the Determination of the Genus to the Species which I make in the beginning, will not prefendly be underftood; but in the fequel it will be comprehended by the Connexion of things, and by what necessarily results therefrom.

#### Concerning the Astronomical Epocha of this Method.

Have endeavoured to discover what is the *Epocha*, from whence they here begin to compute the Motions of the Sun and Moon, and to what year, what month, and what day of our Kalender it refers: for it is not treated of in this extract, which supposes it either known, or explained perhaps in the preceding Chapters from whence this extract has been taken, feeing that without the knowledge of the *Epocha*, it is abfolutely impossible to practice this Me-

I have found that this Epocha is Astronomical, and that it is different from the Civil, which I have understood, because it is here prescribed to begin to compute the Months of the Year, current with the fifth Month in the Leap Year, which consists of 13 Months, and with the fixth Month in the common Year, which consists of 12 Months. For this would not be intelligible, if they supposed not two different Epoches of Years, the one whereof, which must be the

Astronomical, begins sometimes in the fifth, and sometimes in the fixth Month of the other, which is the Civil. That which likewise evinc'd to me that the Aftronomical Epoche, is different from the Civil Epocha, not only in the Months, but also in the Years, is the Operation which is here made to find the Year of ones Nativity, by substracting his Age from the number of the Years elaps d fince the Epocha; for this Operation would be ufelefs, if they demand only the Year of the Birth after the Civil Epocha, which is immediately known, and which is compared to the Year current, to know the Age of a Per-

This being (upposed, I have first searched out the Age to which this Astronomical *Epscha* may refer; and having found in the Calculation of the Sun, performed by this method, that two Signs and twenty Degrees which are therein employed, can only denote the place of the Zediack, where was found that the Zediack, where was found that the Zediack, where was found that the Zediack. the Apogeum of the Sun in the Epocha, which Apogeum must be in the twentieth Degree of Genini; I judged that this Epocha must be about the seventh Age, where the Apogaum of the Sun is found in the twentieth Degree of Gemini ac-

cording to most Astronomical Tables.

Secondly, baying found that the number 621, which is intermixed in the Calculation of the Sun, can only be the number of the days comprized, between the Aftronomical Epocha, and the return of the Moon's Apogaum, to the beginning of the Zodiack; and that the number 3332, which is afterwards employed therein, can be only the number of the Days, during which, this Appears makes a Revolution; I have confirmed that the Appears of the Moon, which in 621 Days makes two Signs and nine Degrees, was in this Epocha, in the 21 Degrees of Capricorn: And because that the Moon's Apogram by the Revolution it makes in eight Years three quarters, returns to the same degree of the Zodiack twelve times in one Age, I have diftinguished the Years of the Age, in which the Moon's Apogeum is found in this Degree, and I have excluded the other Year.

Thirdly, having found by the method here used for Calculating the place of the Sun, that this Aftronomical Epocha is very near the vernal Æquinox, which in the feventh Age fell on the 20th or 21th of March; Amongst these select Years I have found one in which the Moons Apogana, arrived at this Degree of Capricorn, about the 21th of March, which is found but once in 62 Years, wanting some Degrees, and I have found that in the 638th Year of Jesus Christ, the Apogeum of the Moon was at the 21st Degree of Capricornthe 21st

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Fourthly, I have remarked that this Astronomical Epocha must have begun at a new Moon; because the Lunar Months are reduced into Days, to find the number of the Days from the Epocha, and the value of the whole Months being deducted from the Sum of the Days, the reft ferves to find the Moon's

distance from the Sun.

In the 638th Year of Jesus Christ, the Æquinoxial new Moon happened the 21st of March at three a Clock in the Morning at Siam, when the Sun by its middle Motion ran through the first degree of Aries, the Sun's Apogaim being in the 20th Degree of Gemini, and the Moon's in the 21ft Degree of Capricorn, This Day was likewife remarkable for a great Eclipse of the Sun, which happened the fame day, but 14. Hours after the mean Conjunction.

Fifthly, By the manner of finding the day of the week, which is here observed, it appears that the day of the Epochs, was a Saturday; and the 21st of March, in the Year 638 was also a Saturday. This likewise confirms the certainty of this Epocha, and demonstrates the Knowledge and Judgment of those that have established it, who contented not themselves with a Civil Epocha, as other Astronomers have done : but who have chosen an Astronomical one, which was the Natural Principle of several Revolutions, which could not begin again, till after feveral Ages. This Epocha is 5 Years and 278 Days distant from the Persian Epocha of Jesus entering the first year of which began on the 16th of June, in the Year of Jesus Christ, 32. Yet these Indian Rules are not taken from the Persian Tables related by Crisceca; for these Tables do make

the Sun's Apogaum two degrees more backward, and the Moon's Apogaum above fix degrees forwarder; which agrees not so exactly with our modern Tables. The Persian Tables do also make the Sun's Æquation 12 Minutes less, and that of the Moon 4 Minutes greater; which agrees better with the Moderns.

These Indian Rules are not drawn either from the Tables of Protony, where the Sun's Appearum is fixed to the 5<sup>th</sup> degree and a half of Gemini; nor from the other Tables since made, which have all this moveable Appearum. It seems therefore that they have been invented by the Indians; or that perhaps they have been taken from the Chinese Astronomy, as may be conjectured from this, that in this extract the Numbers are written from the top downwards, after the manner of the Chinefer: but it may be that this way of writing the numbers might be common to these two Nations.

Having found the Aftronomical Epocha of this method, and the Relation it has with the Julian years, we may rectifie the Epocha's of the motions of the Sun and Moon by the modern Tables, by adding about a Minute a Year to the Sun's Appearan, and by correcting the other Periods. Thus there will be no difficulty to reduce the Years and Mounts fiees the English late day. difficulty, to reduce the Years and Months fince the Epocha into days; and if the Equations are likewise corrected conformably to the modern Tables, we shall by the same Method, find the place of the Sun and Moon with a great deal more exactness. We will give this Correction, with the Supplement of what is wanting in these Rules, after that we have explained them.

Rules to find the place of the Sun and Moon at the time of any Perfon's Birth.

Explication.

10 SET down the Æra.

1st THE Ara in this place is the number of the years fince the Astronomical Epocha from whence is taken the motion of the Planets to the cur-

rent year; which will appear in the fequel.

2d. Substract the Age of the Person from the Æra, you will have the Age of

2d. The Age of the Perfon, is the number of the Years from his Birth to the Year current, which being deducted from the Bra, there remains the Age

or Time of the Birth, that is to fay, the Year from the Astronomical Epocha in which the Nativity happened. 3d. Multiply it by 12.

3<sup>d</sup>. By multiplying the years by 12 they are reduced into Months. These Months will be folar, each confifting of 30 days, 10 hours and a half, a little

more or less, according to the several Hypotheses, if the years are solar; or near upon if they are lunifolar, and in fo great number, that the excess of the one

recompences the defect of the others.

4th. Add hereunto the number of the Months of the year current and for this purpose if the year current is Attikamaat, that is to fay, if it has 13 Lunar months, you shall begin to compute with the 5th month; but if it is not Attikamaat, you shall begin to compute with the 6th

4th. The form of the Year here mentioned, is lunifolar, feeing there are some common of 12 lunar months, and abundant or Embolismal, called Attikamaat, of 13 lunar months. For that they begin to compute the months, not with the first month of the year, but with the fifth, if it is Leap year, and with the fixth if it is

not: I have inferred that there are two Epocha's, and two forms of different

Years, the one Aftronomical and the other Civil: that the first Month of the Aftronomical Year begins in the fifth Month of the Civil Leap year, which would be the fixth Month without the intercalation of the Leap-month, which is not reckoned amongst the 12 Months, and which is supposed to be inferted before; and that in the other Years, all the Months of which are fucceffively computed without Intercalation, the first Month of the Astronomical Year, is

computed only from the fixth Month of the Civil Year.

But as it is not expresly determined here, whether one ought to begin to comput as it is not expreny determined nere, whether our ought to begin to compute an entire month at the beginning or end of the 5th or 6th month, it may be that for the first month of the Astronomical Year they take, that which ends at the beginning of the months whereof it is discoursed in this Article. In this cale, the Interval between the beginning of the Civil Year, and the beginning of the Aftronomical Year, would be only of 3 or 4 entire months: whereas if of the Attronomical Teat, would be only of 30 4 cance months. Whereas it an entire month is reckoned only at the end of the 5th or of the 5th month, and that the first month which is reckoned, according to this Rule, be the first of the Aftronomical Year; the interval between the beginnings of these two sorts of years, will be 4 or 5 whole months. We shall see in the sequel, that the Indians have diverse forts of Aftronomical Years, the beginnings of which are different, and are not much diffant from the Vernal Æquinox; whereas the Civil Year must begin before the Winter Solstice, sometimes in the month of November, sometimes in the month of December of the Gregorian Year.

They add the number of the months of the current year, which are lunar months, to those that they have found by the third Article, which are folar months; and they suppose that the sum, as heterogeneous as it is, should be equal to the number of the folar months elapfed from the Aftronomical Epochs. They neglect the difference that there may be, which in a year cannot amount to an entire month: but they might be deceived a month in the fucceffion of the years, if they took not good heed to the Intercalations of the months, after which the number of the months which are computed in the Civil Year, is leffer than that which they would reckon without the precedent Intercalations.

5th. Multiply by 7 the number found

'Art. 4.
6th. Divide the sum by 228.

7th. Joyn the quotient of the division to the number found Art. 4. This will give you the Maasaken (that is to sa), the number of the months) which you shall keep.

5th 6th, 7th. They here feek the number of the lunar months from the Aftronomical Epocha, discoursed of in the 1st. Article, to the beginning of the current month: which is performed by reducing the folar months, which are supposed to have been found above, into lunar months, by

the means of the difference, which is between the one and the other. In the operations which are made, is is supposed that as 228 is to 7, so the number of the solar months given, is to the difference which the number of the lunary months surpasses the number given of the solar months elapsed, during the same fpace of time; that thus in 228 folar months, which do make 19 years, there are 228 lunary months, and 7 months more, that is to fay 235 lunary months. This therefore is a Period like to that of Numa and Meto, and to our Cycle of the golden number of 19 years, during which the Moon rejoynd it felf 235 times

Yet in the fequel we shall see, that these Periods which accord together in the number of the lunar months and folar years, agree not in the number of the hours, byrea(on of the greatness of the folar year and of the lunar month, which is supposed various in these several Periods: and that the Indian is not subject to a fault fo great, as the ancient Cycle of the Golden Number, which they have been obliged to expunge out of the Roman Kalender, in the Gregorian correction, because it gave the new Moons later than they are, almost a day in 312 years; because it gave the New Moons determined by this Indian Period, agree with the true in this interval of time to near an hour, as will be found by comparing these

Rules with the following.

ΙÌ.

1. Set down the Maasaken.

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2. Multiply it by 30.

3. Joyn thereunto the days of the current Month.

II.

The months of the Moon are here reduced into days: but because they make all the months to confift of 30 days, there only will be some artificial months about 11 hours 16

minutes longer than the Aftronomical, or fome artificial days which begin at the New Moons, and are 22 minutes, 32 feconds shorter than the natural days of 24 hours, which begin always at the return of the Sun to the fame Me-

4. Multiply the whole by 11.

They reduce the days into 11 parts, 5. Add thereunto also the number of by multiplying them by 11; and they add thereto 650 elevenths, which do make 50 days and . I find that thefe

59 days and 33 are theartificial days, which were elapsed to the day of the Epocha, fince that an eleventh part of the natural day, and an eleventh of the artificial had began together under the meridian of the Indies, to which these Rules are accommodated.

6. Divide the whole by 703.

7. Keep the Numerator which you shall call Anamaan.

8. Take the quotient of the Fraction found Art. 6. and Substract it from the number found Art. 3. The remainder will be the Horoconne (that is to fay, the number of the days of the Æra) which you shall keep.

Having laid apart what is always added by the 5th. Article, it appears by the 2d. 3d. 4th. 6th and 8th. operation, that as 703 is to 11, fo the number of the artificial days, which refults from the Operations of the 2d. and 3d. Art. is to the number of the days deducted to have the number of the natural days, which answers to this number of the artificial days: whence it

appears, that by making the lunar month to confift of 30 artificial days, 703 of these days do surpass the number of the natural days, which equal them above

eleven days.

One may find the greatness of the Lunar Month, which results from this Hypothesis: for if 703 Artificial Days do give an excess of 11 Days; 30 of these Days which do make a Lunar Month, do give an excess of 133 in the Day; and as 703 is to 330, fo 24 Hoursare to 11 Hours, 15 Minutes, 57 Seconds; and deducting this Overplus from 30 Days, there remains 29 Days, 12 Hours, 44 Minutes, 3 Seconds for the Lunar Month, which agrees within a Second to the Lunar Month determined by our Aftronomers.

As to the value of 59 Days and !! which is added before the Division, it

appears that if 703 Days do give 11 to substract, 59 Days and 1 do give 35 in the Day, which do make 22 Hours, 11 Minutes and a half, by which the end of the Artificial Day, must arrive before the end of the Natural Day,

which is taken for the Epocha.

The Anamaan is the number of the 703 parts of the Day, which remain from the end of the Artificial Day, to the end of the current Natural Day. Use is made hereof in the sequel to calculate the motion of the Moon, as shall be afterwards explained.

The Quotient which is taken from the number of the Days found by the third Art is the difference of the entire Days, which is found between the number of the Artificial Days, and the number of the Natural Days from the

Epocha.

The Horocome is the number of the Natural Days elapsed from the Astronomical Epocha to the current Day. It should seem that in rigour the Addition of the Days of the current Month, prescribed by the third Article, should not be made till after the Multiplication and Division, which serves to find the difference of the Artificial Days from the Natural, because that the Days of the Current Month are Natural, and not Artificial of 30 per mensem: but

by the fequelit appears that this is done more exactly to have the Anamaan which serves for the calculation of the motion of the Moon

#### HI.

1. Set down the Horoconne.

- 2. Divide it by 7.
- 3. The Numerator of the Fraction is the day of the Weck.

tronomical Epocha of the Horoconne is therefore a Saturday. Note, That the first day of the Week is

rations have been well made.

### I۷

I Set down the Horoconne.

- 2. Multiply it by 800.
- 3. Substract it by 373.
- 4. Divide it by 292207. 5. The Quotient will be the Æra, and
- the Numerator of the Fraction will be the Krommethiapponne, which you shall

fore be 11 hours and 11 minutes after the former. The Æra will be a number of Periods of Days from this new Epocha, 800 of which will make 292207. The Question is to know what these Periods will be? 800 Gregorian, Years, which very nearly approach as many Tropical Solar Years, do make 292194 Days. If then we suppose that the Æra be the number of the Tropical Solar Years from the Epocha, 800 of these Years

will be 13 Days too long, according to the Gregorian correction.

But if we suppose that they are Anomalous Years, during which the Sun returns to his Appearan; or Astral. Years during which the Sun returns to the return to the returns to the return to the r fame fixt Star; there, will be almost no error: for in 13 Days, which is the overplus of 800 of these Periods above 800 Gregorian Years, the Sun by its middle motion makes 124, 48'. 48", which the Apogaum of the Sun does in 800 middle motion makes 12<sup>d</sup>. 48'. 48", which the Apogeam of the Sun does in 800 Years by reason of 157!. 39", per annum. Albategnium makes the Annual motion of the Sun's Apogeam 59". 4", and that of the fix'd Stars 54", 34", and there are some modern Astronomers which do make this annual motion of the Sun's form of that of the fix'd Stars 51"; Therefore if what is here called Apogeam 57", and that of the fix'd Stars 51"; Therefore if what is here called Afra, is the number of the Anomalous or Astral Years: these Years will be almost conformable to those which are established by the antient and modern Astronomers. Nevertheless is appears by the sollowing Rules, that they use this form of Year as if it were Tropical, during which the Sun returns to the this form of Year as if it were Tropical, during which the Sun returns to the same place of the Zodiack, and that it is not diffinguished from the other two

The Krommethiapponne which remains after the preceeding Division, that is to fay, after having taken all the entire Years from the Epocha, will therefore be the 800 parts of the Day, which remain after the Sun's return to the same place of the Zodiack: and it appears by the following Operations that this place was the beginning of Aries. Thus according to this Hypothelis the Vernal middle Equinox will happen 11 Hours 11 after the Epocha of the preceeding

#### III.

It follows from this Operation and Advertisement, that if after the Division there remains 1, the current day will be a Sunday; and if nothing remains, it will be a Saturday: the As-

If it be known likewise what day of the Week is the day current, it will be seen whether the Precedent Ope-

### IV.

The days are here reduced into 800 parts. The number 373 of the third Article makes 323 of the day, which do make 11 hours and 11 minutes.

They can proceed only from the difference of the *Epocha's*, or from fome correction, feeing that it is always the same number that is substracted. The Epocha of this fourth Section may there-

> then joyn it to the Outhiapponne, then Substratt thence two days, divide it by 7, the Fraction will show the day. Whatever is before is called Poulasouriat, as if one should say the Force of the Sun.

> > Sun will be.

VII.

1. Set down the Krommethiapponne. 2. Divide it by 24350. 3. Keep the quotient, which will be the Raasi, that is to say, the Sign where the

Seeing that in the third Art, the day of the Week is found by the Horoconne, afte a very easie manner, it is needless to flay on this which is longer and more compounded.

V.

5. Divide the remainder by 7, the Fra-Elion will give you the day of the Week. Note, That when I shall say the Fraction, I mean only of the Numerator.

1. Set down the Krommethiapponne.

4. Neglecting the Fraction, substract

VI.

2. Substract from it the Ara.

3. Divide the ramainder by 2.

2 from the Quotient.

#### VI.

This Substraction of 621, which is 1. Horoconne. always deducted from the Horoconne, 2. Substract from it 621. what number foever the Horoconne con-3. Divide the remainder by 3232. The tains, denotes an Epocha, which is 621 Fraction is called Outhiapponne, which

days after the Epocha of the Horoconne. The number 3232 must be the number of the Days, which the Moon's you shall keep. Apogaum employs in running through the Circle of the Zodiack: 3232 Days do make 8 Julian Years and 310 Days. During that time this Apagarm finishes a Revolution after the rate of 6'. 41" which it performs in a Day, even according to the Astronomers of Europe. The Appgaum of the Moon does configurently finish its Revolution 621 days after the Epochn of the Horocome. Tis here performed then; as 3232 days are to a Revolution of the Apogeum, fo the number of the days is to the number of the Revolutions of the Apogann. They keep the remainder which is the number of the days called Outhinponne. The

Outhispponne will therefore be the number of the days elapfed from the return of the Moon's Apogaum to the beginning of the Zodiac; which will more evidently appear in the fequel. Having already explained the true method of finding the day of the Week, it is needless to stay here. If you would have the day of the Weck by the Outhiapponne, take the Quotient of the aforesaid Division; multiply it by 5, Leaving the care of examining it, and

and fearching the ground thereof, to those that shall have the cariofity. Notwithstanding the name of the Sun's Force which is here given to the precedent Operations, it is certain that

what has hitherto been explained, belongs not only to the Sun, but likewise to the Moon.

### VII.

To find what the number 24350 is, it is necessary to consider, that the Krommethiapponne are the 800 parts of the day which remains after the Sun's return to the same place of the Zodiac, and that the folar year contains 292207

of these parts, as has been declared in the explication of the fourth Section. The twelfth part of a year will therefore contain 24350 and 13, of these 800 parts: wherefore the number 24350 denotes the twelfth part of a solar year, during which the Sun by its middle motion makes a Sign.

Seeing then that 24450 of a day do give a Sign, the Krommethiapponne divided by 24350 will give to the Quotient the Signs which the Sun has run fince his return by his middle motion to the same place; The Raass then is the number of the Signs, run through by the middle motion of the Sun. They here neglect the Fraction 17, so that the folar year remainshere of 292 200, that is to say, of 365 days 4, like the Julian year. Seeing that by the preceding Article

4. Lay down the Fraction of the aforefaid Division, and divide it by 811.

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5. The Quotient of the Division will be the Ongiaa, that is to fay, the degree

the Ongiaa, that is to fay, the degree

pherein the Sun will be.

24330 is 811; which do make a degree

cut wilding then the remainder by 811; they will have the degree of the

Sun wildle motion. Here they medical the which can make the degree of the

Sun's middle motion. Here they neglect the ; which can make no confiderable difference.

6. Set down the Fraction of this last Division, and divide it by 14. 7. The Quotient will be the Libedaa,

that is to far the Minute.

8. Substract 3 from the Libedaa.

9. Place what belongs to the Libedaa, underneath the Onglaa, and the Onglaa underneath the Raasi: This will make a Figure which shall be called the Mattejomme of the Sun, which you shall keep. I Suppose it is locus medius Solis.

> Raafi, Signs. ongsaa, Degrees.

Libedaa, Minutes.

Seeing that in a degree there are 👯 parts; in a minute, which is the 60th part of a degree, there will be 131: of these parts. Neglecting the Fraction, they take the number 14, which divi-ding the remainder, will give the minutes. The Substraction which is here made of three minutes is a reduction

24 300 of a day do give a Sign of the

Sun's middle Motion, the 30th part of

whereof we shall speak in the sequel. It is here prescribed to put the Degrees under the Signs, and the Minures under the Degrees in this manner.

This Disposition of the Signs, Degrees, and Minutes one under the other is called a Pigure, and it here denotes the middle place of the Sun-

#### VIII.

To find the true place of the Sun.

1. Set down the Mattejomme of the Sun, that is to (ay, the figure which comprehends what is in the Raasi, Ongsaa, and Libedaa.

2. Substratt 2 from the Raafi. But if this cannot be, add 12 to the Raasi, to be able to do it, then do it.

3. Substract 20 from the Ongsaa. But if this cannot be, deduct I from the Raafi, which will amount to 30 in the Ongsaa,

then you shall deduct the aforesaid 20. it is at present 17 degrees, which this Apogaum performs not in less than 1000 years, or thereabouts: From whence it may be judged that the Epocha of this method is about a thousand years before the present age. But as the greatness of the year agrees better here with the Suns return to the Apogaum and the fixed Stars, than with the Suns return to the Equinoxes; it may be that the beginning of the Signs here used, is not at present in the Equinoxial point, but that it is advanced 17 or 18 degrees, and so it will be necessary to be corrected by the Anticipation of the Equinoxes. Here then they substract the Suns Apogeum from its middle place called Mattejomme, to have the Suns Anomalia: and the number of the Signs of this Anomalia is that which they call Kenne.

4. What will afterwards remain, shall be called Kenne.

it by 2, you will have the Kanne.
6. If the Kenne is 3, 4, or 5; you

VIII.

The number 2, which is substracted from the Raafi in the second Article, and the number 20 in the third Article, are 2 Signs and 20 degrees, which doubtless denotes the place of the Suns Apogaum according to this Hipothesis; in which there is not seen any number which answers to the motion of the Apogesim. It appears then that this Apogaum is supposed fix'd to the 20th degree of Gemini, which precedes the true place of the Apogaum, as

It appeareth by these Rules that the Kanne is the number of the half-figns 5. If the Kenne is 0, 1, or 2, multiply of the distance of the Apogeum or Perigaum, taken according to the fucceffion of the Signs, according as the

shall substract the figure from this figure

Tome II.

which is called Attachiat, and amounts to

7. If the Kenne is 6, 7, 8; Substract 6 from the Raail, the remainder will be the

8. If the Kenne is 9, 10, 11; fub-Stratt the figure from this figure

60

which is called Touataasamounetonne, and amounts to 12 Signs: the remainder in the Raasi will be the Kanne.

9. If you can deduct 15 from the Ongfaa, add I to the Kanne, if you cannot, add nothing.

10. Multiply the Ongsaa by 60. 11. Add thereunto the Libedaa, this

will be the Pouchalit, which you shall

12, Consider the Kanne. If the Kanne is o, take the first number of the Chaajaa of the Sun, which is 35; and multiply it by the Pouchalit.

13. If the Kanne is fome other number, take according to the number, the number of the Chaiga agttit, and substract it from the number underneath. Then what shall remain in the lower number, multiply by it the Pouchalit. As for example, if the Kanne is 1, substract 35 from 67, and by the rest multiply. If the Kanne is 2, Substract 67 from 94, and by the rest multiply the Pouchalit.

14. Divide the Sum of the Pouchalit

multiplied by 900.

15. Add the Quotient to the Superior number of the Chajaa, which you have made use of.

16. Divide the Sum by 60. 17. The Quotient will be Ongfaa, the Fraction will be the Libedaa. Put an o

in the place of the Raali. 18. Set the figure found by the preceding Article over against the Mattejomme of

19. Confider the Ken aforefaid. If the Ken is 0, 1, 2, 3, 4, 5; It is called Ken substracting : Thus you shall substract the figure found in the 17 Article from the Mattejomme of the Sun.

20, If the Ken is 6, 7, 8, 9, 10, 11, it is called Ken additional: So you (ball joyn the faid figure to the Matteiomme of the

Sun is nearer one term than the other: So that in the 5th Article is taken the distance of the Apogaum according to the succession of the Signs; in Article 6th the distance of the Perigaum, against the fucceffion of the Signs: in Article 7th the diffance of the Perigann according to the fucceffion of the Signs; and in Article 8th the distance of the Apogaum, contrary to the fuccession of the Signs. In the 6th, 7th, and 8th Articles it feems, that it must always be understood. Multiply the Raasi by 2, as it appears in the fequel.

In the 6th Article when the degrees of the An omalia exceed 15, they add I to the Kanne; because that the Kanne, which is a half Sign, amounts

to 15 degrees.

The degrees and minutes of the Kanne are here reduced into minutes, the number of which is called the Pouchalit.

It appears by these Operations, that the Chaajaa is the Æquation of the Sun calculated from 15 to 15 degrees, the first number of which is 35, the fecond 67, the third 94; and that they are minutes, which are to one another as the Sinus of 15, 30, and 45 degrees from whence

It follows that the Equation of 60, 75, 94 and 90 degrees are, 116, 129, 134.

which are fet apart in this form, and do answer in order to the number of the Kanne, 1, 2, 3, 4, 5, 6.

As for the other degrees they take the proportional part of the difference of one number to the other, which answers to 15 degrees, which do make 900 minutes, making : as 900, to the difference of two Equations; fo the minutes which are in the overplus of the Kanne, to the proportional part of the Equation, which it is necessary to add to the minutes which answer to the Kanne to make the total Equation. They reduce these minutes of the Equation into degrees and minutes, dividing them by 60. The greatest Equation of the Sun is here of 2 degrees, 12 min. The Alphonfine Tables do make it 2 degrees, 10 minutes: We find it of I degree, 57 minutes. They Sun: which will give out at last the Som- apply the Equation to the middle mepont of the Sun, which you shall pre- place of the Sun, to have its true place which is called Sommepont.

19. This Equation, conformably to the rule of our Aftronomers in the first cifely keep. demi-circle of the Anomalia, is substractive; and in the second demi-circle, additional. Here they perform the Arithmetical operations placing one under the other, what we place fide ways, and on the contrary, placing fide ways, what we place one under the other. As for Example:

	The Mattejomme, &	The Chajaa,	The Sommepont,	
Raasi,	8	0	8	Signs.
Ong saa,	25	2	27	Degrees.
Libedaa,	40	4	44	Minutes.
	Middle Place.	Equation.	True Place.	

IX.

IX.

- 1; Set down the Sommepont of the
- 2. Multiply by 30 what is in the Raagi. 3. Add thereto what is in the Ongsaa.
- 4. Multiply the whole by 60. 5. Add thereunto what is in the Libedaa.
- 6. Divide the whole by 800, the Quotient will be the Reuc of the Sun.
- 7. Divide the remaining Fraction by 13, the Quotient will be the Naati reuc. which you shall keep underneath the Reuc.

It appears by these Operations that the Indians divide the Zodiac into 27 equal parts, which are each of 13 degrees, 40 minutes. For by the fix first Operations the figns are reduced into degrees, and the minutes of the true place of the Sun into minutes; and in dividing them afterwards by 800, they are reduced into 27 parts of a Circle; for 800 minutes are the 27th part of 21600 minutes which are in the Circle, the number of the 27 parts of the

Zodiack are therefore called Reue, each of which confifts of 800 minutes, that is to fay, of 13 degrees, 40 minutes. This division is grounded upon the diurnal motion of the Moon, which is about 13 Degrees, 40 Minutes; as the division of the Zodiack unto 360 Degrees has for foundation the diurnal motion of the Sun in the Zodiack, which is near a Degree.

The 60 of these parts is 131, as it appears in dividing 800 by 60, wherefore they divide the Remainder by 13, neglecting the fraction, to have what is here called *Nati-rene*, which are the Minutes or 60 parts of a *Rene*.

Χ.

For the Moon. To find the Mattejomme of the Moon.

- 1. Set down the Anamaan.
- 2. Divide it by 25.
- 3. Neglect the Fraction, and joyn the Quotient with the Anamaan. Divide

Altho according to this rule, the Ana-

According to the 7th Article of the III Section, the Anamaan is the number of the 703 parts of the day, which remain from the end of the Artificial day to the end of the Natural day.

4. Divide the whole by 60, the Quoti- main can never amount to 703; yet if ent will be Onglaa, the Fraction will be 703 be fet down for the Anamaun, Libedaa, and you shall put an o to the and it be divided by 25, according to the 2d Article, they have 28;, for the Quotient. Adding 28 to 703, ac-

cording to the third Article, the sum 731 will be a number of minutes of a degree. Dividing 731 by 60, according to the fourth Article, the Quotient which is 124, 117, is the middle diurnal motion, by which the Moon removes

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From what has been faid in the II Section, it refults that in 30 days the Anaman augments 330. Dividing 330 by 25, there is in the Quoticat 135. Adding this Quotient to the Inamaan, the funm is 3+3, that is to fay, 5 d +43' which the Moon removes from the Sun in 30 days, befides the entire Circle.

The European Tables do make the diurnal motion of 12 d, 11', and middle motion in 30 days, of 5 d. 43', 21", belides the entire Circle.

6. Multiply this number by 12.

7. Divide the whole by 30 the Quotient, put it to the Raali of the preceding figure which has an o at the Raali, and joyn the fraction to the Ongfaa of the figure.

8. Joyn this whole figure to the Mattejomme of the Sun.

9. Substratt 40 from the Libedia. But if this cannot be, you may deduct I from the Onglaa, which will be 60 Li-

10. What shall remain in the sigure is the Mattejomme of the Moon fought.

5. Set down as many days as you have After having found out the degrees before put to the month current. Sect. II. and the minutes which agree to the Anamaan, they feek the figns and degrees which agree to the Artificial days of the current month. For to multiply them by 12, and to divide them by 30, is the same thing as to say, If thirty Artificial days do give 12 Signs, what will the Artificial days of the current month give? they will have the Signs in the Quotient. The Fractions are the 30ths of a Sign, that is to fay, of the degrees. They joyn them therefore to the degrees found by the Anamaan, which is the furplufage of the Natural days above the Artifi-

The Figure here treated of is the Moons distance from the Sun, after they have deducted 40 minutes, which is either a Correction made to the Epocha, or the reduction of one Meridian to another: as shall be explain'd in the sequel. This diffance of the Moon from the Sun being added to the middle place of the Sun, gives the middle-place of the Moon-

XI.

1. Set down the Outhiapponne.

2. Multiply by 3.

3. Divide by 808. 4. Put the Quotient to the Raafi.

5. Multiply the frattion by 30.

6. Divide it by 808, the Quotient will be Ongfaa.

7. Take the remaining fraction, and multiply it by 60.

8. Divide the fumm by 808, the Quotient will be Libedaa.

9. Add 2 to the Libedaa; the Raafi, the Ongsaa, and the Libedaa will be the Mattejomme of Louthia, which you Shall keep.

Upon the VI. Section it is remark. ed that the Outhiapponne is the number of the Days after the return of the Moon's Apogaum, which is performed in 3232 Days: 808 Days are therefore the fourth part of the time of the Revolution of the Moon's Apogaum, during which it makes 3 Signs, which are the fourth part of the Circle.

XI.

By these Operations therefore they find the motion of the Moon's Apogaum, making as 808 Days are to 3 Signs; fo the time paffed from the return of the Moon's Apogaum is to the motion of the same Apogaum during this time. It appears by the follow-

ing Operation that this motion is taken from the same Principle of the Zodiack, from whence the motion of the Sun is taken. The Mattejomme of Louthia, is the Place of the Moon's Apogaum.

XII.

those of the VIII. Section, to find the

place of the Sun, and are sufficiently illustrated, by the explication made of

The difference in the Chajaa of the

The greatest Equation of the Moon

fome Modern Astronomers do make

of 5 degrees in the Conjunctions and

Moon, discoursed of in the 14th and

15th Article. This Chajaa confifts in

that Section.

these numbers.

Oppositions.

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All these Rules are conformable to

### XII.

For the Sommepont of the Moon. 1. Set down the Mattejomme of the

2. Over against it set the Mattejomme of Louthia.

3. Substract the Mattejomme of Louthia from the Mattejomme of the Moon.
4. What remains in the Raasi will be

the Kenne. 5. If the Kenne is 0, 1, 2, multiply it

by 2, and it will be the Kanne. 6. If the Ken is 3, 4, 5, Substratt it from this figure,

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7. If the Ken is 6, 7, 8, fubstract from is therefore of 4 degrees 56 minutes, as

8. If the Ken is 9, 10, 11, fubstract it it, though the generality do make it from this figure 11

9. If the Kenne is 1 or 2, multiply it by 2; this will be the Kanne.

10. Deduct 15 from the Onglaa, if possible 3 you shall add I to the Raali ; if not,

11. Multiply the Ongsaa by 60, and add thereunto the Libedaa, and it will be the

Pouchalit, that you shall keep 12. Take into the Moons Chajaa the number conformable to the Kanne as it has been faid of the Sun; fulfrast the upper number from the lower.

13. Take the remainder, and therewith multiply the Pouchalit.

14. Divide this by 900.

15. Add this Quotient to the upper number of the Moons Chajaa.

16. Divide this by 60, the Quotient will be Ongsaa, the Fraction Libedia, and an o for the Raafi.

17. Opposite to this figure set the Mattejomme of the Moon. 18. Consider the Ken. If the Ken is 0, 1, 2, 3, 4, 5, substract the sigure of the Moons Mattersonme; if the Ken is 6, 7, 8, 9, 10, 11, 10m the two sigures together, and you will have the Sommepont of the Moon, which you shall keep.

### XIII.

Set down the Sommepont of the Moon, and operating as you have done in the Sommepont of the Sun, you will find the Reuc and Nattireuc of the Moon.

This Operation has been made for the Sun in the IX Section. It is to find the position of the Moon in her Stations, which are the 27 parts of the Zodiac.

XIV.

### XIV.

The Pianne is therefore the Moon's 1. Set down the Sommepont of the distance from the Sun. Moon.

2. Over against it set the Sommepontof the Sun. 3. Substratt the Sommepont of the Sun from the Sommepont of the Moon, and the Pianne will remain, which you shall keep.

XV. I. Take

### xv.

Tome II.

1. Take the Pianne and set it down.

2. Multiply the Raasi by 30, add the Onglaa thereunto. 3. Multiply the whole by 60, and there-

unto add the Libedaa. 4. Divide the whole by 720, the Quo-

tient is called Itti, which you shall keep. 5. Divide the Fraction by 12, the Quoent will be Natti itti.

The end of the Souriat.

XV.

These three first Operations do serve to reduce the Moon's distance from the Sun into minutes; dividing it by 720, it is reduced to the 30 part of a Circle, for 720 minutes are the 30th part of 21600 minutes, which do make the whole circumference. 'The ground of this division is the Moons diurnal motion from the Sun, which is near the 30th part of the whole Circle. They confider then the Polition of the Moon.

not only in the Signs and in her stations, but also in the 30th parts of the Zodiack, which do each confift of 12 degrees, and are called itti; dividing the zonates, which do each could be the minutes, or fixtieth parts of an itii, which do each coulift of 12 minutes of degrees, which the Moon removes from the Sun in the fixtieth part of a day; these fixtieth parts are called natti itti.

## Reflexions upon the Indian Rules.

## I. Of the particular Epocha's of the Indian Method.

H Aving explained the Rules comprifed in the preceding Sections, and found our feveral Periods of Years, Months, and Days, which they suppose: It remains to us particularly to explain divers particular Epochas, which we have found in the numbers employed in this Method, which being compared together may serve to determine the Year, the Month, the Day, the Hour, and the Meridian of the Altronomical Epocha, which is not spoken of in the Indian Rules, which suppose it known.

By the Rules of the I. Section, is fought the number of the Lunary Months elapsed from the Astronomical Epocha. The Epocha which they suppose in this Section is therefore that of the Lunar Months; and consequently it must be at the Hour of the middle Conjunction from whence begins the Month wherein

By the Rules of the II. Section, they first reduce the Lunar Months elapsed from the Epocha into Artificial Days of 30 per menfem, which are florter than the Natural Days, from one Noon to the other, by; a Day, that is to fay by 22 Minutes 32 Seconds of an Hour. Thefe Artificial Days have therefore their beginning at the new Moons, and at every thirtieth part of the Lunar Month; but the Natural Days do always begin naturally at Midnight under the fame Meridian. The Term of the Artificial Days agrees not then with the Term of the Natural Days, in the same Hour and same Minute, unless when the Month, or one of the 30 parts of the Month, begins at Midnight under the Meridian given at the choice of the Aftronomer. After this common beginning the end of the Artificial Day, prevents the end of the Natural Day under the same Meridian 3, a Day, in which does then confift the Anamaan, which always augments one 703d of a Day to every eleventh part of the Day, until that the number of the 703 parts, amounts to 703, or surpasses this number; for then they take 703 of these parts for a Day, whereby the number of the Artificial Days furpaffes the number of the Natural Days, elaps'd fince the Epocha; and the remainder, if there is any, is the Anamaan. The day of this meeting of the content of the Natural Days, elaps'd fince the Epocha; or concourse of the term of the Artificial days with the term of the Natural Days under the Meridian which is chosen, is always a new Epocha of the Anamaan, which is reduced to nothing, or to lefs than t1, after having attained this number 703; which arrives only at every Period of 64 Days, as it appears in dividing 703 by 11, and more exactly eleven times in 703 Days. At every time given for the Epocha of the Anamaan they then take the Day of the preceeding rencounter of the beginning of the Artificial Days with the beginning of the Natural Days, which under the same Meridian happens only five

or fix times in a Year.

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Seeing then that in the fifth Article of the II Section, they add 650 elevenths of a Day to those which are elapsed from the Epocha of the I. Section, they suppose that this Epocha was proceeded from another Epocha which could only happone that this Epocha was proceeded from another Epocha which could only be that of the Anamana, of 650 elevenths of a Day; that is to fay of 59 Days 11, which do give 52, of a Day for the Anamana, under the Meridian of the East Indice, to which the Rules of this II. Section are accommodated; which shows that under this Meridian the middle Conjunction which gave between the Antiferial Day beautiful English and Consential English as the Antiferial English and Consential ginning to the Artificial Day fince the Aftronomical Epochs, was 500 of a Day before the end of the Natural Day in which this conjunction happen'd; And confequently that it happen'd at one a Clock 49 Minutes in the morning, under the Meridian which is supposed in the same Section: but in the 9th Article of the roth Section, they deduct 40 Minutes from the motion of the Moon; and in the 8th Article of the 7th Section, they deduct 3 minutes from the motion of the Sun: which removes the Moon 37 minutes from the Sun, at the hour that they suppose the middle Conjunction of the Moon with the Sun, in

Wherefore I have judged that the 40 minutes taken from the motion of the Moon, and the 3 minutes taken from the motion of the Sun, do refult from some difference between the meridian to which these Rules were accommodated at the beginning, and of another meridian to which they have fince reduced them: fo that under the meridian supposed in the II. Section, the new Moon in the Epocha arrived at one a Clock 49 minutes in the morning; but under the meridian which is supposed in the 9th Article of the X. Section, at the same hour of I and 49 minutes after midnight, the Moon was distant from the sun 37 minutes, which it makes in an hour 13 minutes; therefore under the Meridian supposed in the 9th Article of the X. Section, the new Moon could not arrive till 3 a Clock 2 minutes after midnight. The meridian to which these Rules have been reduced, would therefore be more oriental than the meridian than the than the meridian chosen at the beginning by 1 hour 13 minutes, that is to say, 18 degrees and a quarter; and having supposed that they have reduced them to the meridian of siam, they would be accommodated from the beginning, al-

most, to the meridian of Nursinga.

What more convinces that this substraction of 40 minutes from the motion of the Moon, and of three minutes from the motion of the Sun, is caused from the difference of the meridians of 1 hour 13 minutes, is that in 1 hour 13 minutes the Moon makes 40 minutes, and the Sun 3. 'Tis therefore by the fame difference of 1 hour 13 minutes, that they have deducted 3 minutes from the

motion of the Sun, and 40 minutes from the motion of the Moon.

Without this correspondence of what they have deducted from the motion of the Sun, with what they have taken from the motion of the Moon, which appears to have for foundation the same difference of time, and consequently the same difference of meridians, one might have reason to believe that the fubftraction of thefe40 minutes has been made a lorg time after thefe first rules; because that it is perceived in process of time, that the motion of the Moon was not exactly so quick, as it results from the preceding Rules, which do make the lunar month about three quarters of a fecond shorter than the modern Tables; and this difference amounts to 1 hour and 13 minutes in 450 years, or thereabouts. Thus, if 450 years after the Epocha they had compared the first rules to the observations, one might have judged that the Moon retarded, in respect of these first rules, I hour and 13 minutes, or 40 minutes of a degree. But this difference, which is always the same, when attributed to the difference of the meridians, would not be always the same if it depended on the motion of

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the Moon, for it would augment one minute to 12 years; to which twould be necessary to have regard in the Correction of these Rules.

## II. The Determination of the Astronomical Epocha of the In-

Seeing that these Indian Rules have been brought from Siam, and that the Civil year of the Siameses begins in the season that we think it ought to begin according to the Rules of the I. Section, as we shall show in the sequel, it is reasonable to suppose that the meridian to which these Rules have been to-duced by the additions mentioned in the VII. and X. Sections, is the meridian of Siam; therefore by the calculation which we have made, the new Moon which they have taken for the Epocha, must happen at 3 a Clock in the Morning at Siam. As the lunar month of this method agrees to near a Second with the lunary month established by all the European Astronomers, it may be supposed that this hour of the new Moon of the Epocha is very precise, since it may have been deduced from the Observations of the Eclipses of the Moon, which are much more easie to determine than all the other Phanomena of the Planets. We may therefore make use of the common Tables to seek the new. Moons which happen'd about the seventh Age at three in the morning in the meridian of Siam, the difference of which from the meridian of Paris is very exactly known to us by feveral observations of the Eclipses of the Moon, and the Satellites of Jupiter, which the Jefaites fent by the King into the East in quality of his Majestic's Mathematicians have made at Siam, and by the Observations of the same Eclipses made at the same time at Paris in the Royal Observatory; by the Comparison of which Observations it is found that the difference of the meridians of these two Cities is 6 hours 34 minutes.

To this Character of time we might add the Circumfiance of the middle Requince of the Spring, which according to the Hypothesis of the IV. Section, mult happen at 11 hours 12 minutes after the midnight which followed the middle Conjunction of the Moon with the Sun taken for the Epocha, according to what has been faid on the 5th Article of the IV. Section, where they deduct \$3: of, a day, that is to fay, 11 hours and 11 minutes from the days elapfed fince the Epocho, which diffinguishes as much as the Krommethiapponno, which we have declared to be the time elapfed from the Suns return to the the point of the Zodiack, from whence is taken the motion of the Sun and Moon, which

must be the Æquinoxial point of the Spring.

But it must not be pretended that the modern Tables do give the very hour of this Æquinox: for they do not exactly agree together in the Æquinoxes, by reason of the great difficulty which is found to determine them precisely. They agree not with the antient Tables of Prolomy in the middle Aquinoxes, to near 3 or 4 days: wherefore it is sufficient that we found by the modern Tables a new Moon to happen at Siam at 3 a Clock in the morning; within a day or two of the middle Æquinox of the Spring found by the modern

The place of the Suns Apogenn, which according to what we have drawn from the Rules of the 2<sup>d</sup> and 3<sup>d</sup> Articles of the VIII. Section, was at the time of the Aftronomical Epochs in the 20th degree of the fign Gemini, denotes the Age wherein it is necessary to seek this new Æquinoxial Moon, which according to the modern Tables, was about the feventh after the Nativity of Jefus

It is true that as these Rules give not motion to the Sun's Apogaum, It may be doubted, whether it was not in this degree at the time of the Epocha, or at the time of the Observations upon which these Rules have been made. But the Age of this Epocha is likewise determined by another Character joyned to the former: Tis the place of the Moon's Appenn, which according to what we have drawn from the 2d and 3d Articles of the VI Section, was at the time. of the Epocha in the 20th degree of Capricorn, and to which these Rules do give

mann, which is reduced to nothing, or to less than tr, after having attained this number 7035 which arrives only at every Period of 64 Days, as it appears in dividing 203 by 11, and more exactly eleven times in 203 Days. At every time given for the Epocha of the Anamaan they then take the Day of the preceeding rencounter of the beginning of the Artificial Days with the beginning of the Natural Days, which under the same Meridian happens only five or fix times in a Year.

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Seeing then that in the fifth Article of the II. Section, they add 650 elevenths of a Day to those which are elapsed from the Epocha of the I. Section, they suppose that this Epocha was proceeded from another Epocha which could only be that of the Anaman, of 650 elevenths of a Day; that is to fay of 59 Days I., which do give \$\mathscr{C}\_{2}\$ of a Day for the Anaman, under the Meridian of the East Indice, to which the Rules of this II. Section are accommodated; which shows that under this Meridian the middle Conjunction which gave beginning to the Artificial Day fi.ee the Aftronomical Epeba, was 3,3 of a Day before the end of the Natural Day in which this conjunction happen'd; And consequently that it happen'd at one a Clock 49 Minutes in the morning, under the Meridian which is supposed in the same Section: but in the 9th Article of the roth Section, they deduct 40 Minutes from the motion of the Moons and in the 8th Article of the 7th Section, they deduct 3 minutes from the motion of the Sun: which removes the Moon 37 minutes from the Sun, at the hour that they suppose the middle Conjunction of the Moon with the Sun, in the II. Section.

Wherefore I have judged that the 40 minutes taken from the motion of the Moon, and the 3 minutes taken from the motion of the Sun, do refult from some difference between the meridian to which these Rules were accommodated at the beginning, and of another meridian to which they have fince reduced them: fo that under the meridian supposed in the II. Section, the new Moon in the Epocha arrived at one a Clock 4p minutes in the morning; but under the meridian which is supposed in the 9th Article of the X. Section, at the fame hour of 1 and 4p minutes after midnight, the Moon was distant from the Sun 37 minutes, which it makes in an hour 13 minutes; therefore under the Meridian supposed in the 9th Article of the X. Section, the new Moon could not arrive till 3 a Clock 2 minutes after midnight. The meridian supposed which suppose a chief the Rules hour between the more referral to which these Rules have been reduced, would therefore be more oriental than the meridian chosen at the beginning by I hour 13 minutes, that is to say, 18 degrees and a quarter; and having supposed that they have reduced them to the meridian of Siam, they would be accommodated from the beginning, al-

most, to the meridian of Narsinga.

What more convinces that this substraction of 40 minutes from the motion of the Moon, and of three minutes from the motion of the Sun, is caused from the difference of the meridians of 1 hour 13 minutes, is that in 1 hour 13 minutes the Moon makes 40 minutes, and the Sun 3. Tis therefore by the fame difference of 1 hour 13 minutes, that they have deducted 3 minutes from the

motion of the Sun, and 40 minutes from the motion of the Moon.

Without this correspondence of what they have deducted from the motion of the Sun, with what they have taken from the motion of the Moon, which appears to have for foundation the same difference of time, and consequently the same difference of meridians, one might have reason to believe that the fublitaction of thefe40 minutes has been made a lorg time after thefe first rules; because that it is perceived in process of time, that the motion of the Moon was not exactly fo quick, as it refults from the preceding Rules, which do make the lunar month about three quarters of a second shorter than the modern Tables, and this difference amounts to I hour and I 3 minutes in 450 years, or thereabouts. Thus, if 450 years after the Epocha they had compared the first rules to the observations, one might have judged that the Moon retarded, in respect of these first rules, I hour and 13 minutes, or 40 minutes of a degree. But this difference, which is always the fame, when attributed to the difference of the meridians, would not be always the same if it depended on the motion of the Moon, for it would augment one minute to 12 years 3 to which twould be necessary to have regard in the Correction of these Rules.

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### II. The Determination of the Astronomical Epocha of the Indian Method.

S Eeing that these Indian Rules have been brought from Siam, and that the Civil year of the Siamese begins in the season that we think it ought to begin according to the Rules of the I. Section, as we shall show in the sequel, it is reasonable to suppose that the meridian to which these Rules have been reduced by the additions mentioned in the VII. and X. Sections, is the meridian of Siam: therefore by the calculation which we have made, the new Moon which they have taken for the *Epocha*, must happen at 3 a Clock in the Morning at *Siam*. As the lunar month of this method agrees to near a Second with the lunary month established by all the European Astronomers, it may be supposed that this hour of the new Moon of the Epocha is very precise, fince it may have been deduced from the Observations of the Eclipses of the Moon, may have been deduced from the Object attorns of the Employer the Proposition which are much more easie to determine than all the other Phenomena of the Planets. We may therefore make use of the common Tables to seek the new Moons which happen'd about the seventh Age at three in the morning in the meridian of Sian, the difference of which from the meridian of Paris is very meridian of Siam, the difference of which from the meridian of Paris is very exactly known to us by feveral observations of the Eclipses of the Moon, and the Satellites of Jupiter, which the Jefuites sent by the King into the East in quality of his Majetties Mathematicians have made at Siam, and by the Observations of the same Eclipses made at the same time at Paris in the Royal Observatory; by the Comparison of which Observations it is found that the difference of the meridians of these two Cities is 6 hours 34 minutes.

To this Character of time we might add the Circumstance of the middle Equinox of the Spring, which according to the Hypothesis of the IV. Section, must happen at 11 hours 12 minutes after the midnight which followed the muit nappen at 11 nours 12 minutes after the middle Conjunction of the Moon with the Sun taken for the Epocha, according to what has been faid on the 5th Article of the IV. Section, where they deduct 121 of, a day, that is to fay, 11 hours and 11 minutes from the days elapfed fince the Epocha, which diffinguishes as much as the Krommethiappoint, which we have declared to be the clime elapfed from the Suns return to the the point of the Zeithel Crown these steams the mediand the Suns return to the the point. of the Zodiack, from whence is taken the motion of the Sun and Moon, which

must be the Æquinoxial point of the Spring.

But it must not be pretended that the modern Tables do give the very hour of this Æquinox: for they do not exactly agree together in the Æquinoxes, by reason of the great difficulty which is found to determine them precisely. They agree not with the antient Tables of Prolomy in the middle Æquinoxes, Tables a new Moon to happen at Siam at 3 a Clock in the morning, within a day or two of the middle Æquinox of the Spring found by the modern

The place of the Suns Apogenn, which according to what we have drawn from the Rules of the 2<sup>d</sup> and 3<sup>d</sup> Articles of the VIII. Section, was at the time of the Altronomical Epochs in the 20th degree of the fign Gemini, denotes the Age wherein it is necessary to seek this new Æquinoxial Moon, which according to the modern Tables, was about the feventh after the Nativity of Jefus

It is true that as these Rules give not motion to the Sun's Apogeum, It may It is true that as these Rules give not motion to the Suns Apogasin, it may be doubted, whether it was not in this degree at the time of the Epocha, or at the time of the Observations upon which these Rules have been made. But the Age of this Epocha is likewise determined by another Character joyned to the former: 'Tis the place of the Moon's Apogasin, which according to what we have drawn from the 2<sup>d</sup> and 3<sup>d</sup> Articles of the VI. Section, was at the time of the Epocha in the 20<sup>th</sup> degree of Capricorn, and to which these Rules do give.

F. f. f. a motion conformable to that which our Tables do give it; altho they agree not together in the Epoches of the Apogea, but to one or two degrees.

In fine, the day of the Week must be a Saturday in the Epocha, seeing that according to the 3<sup>4</sup> Section, the first day after the Epocha was a Sunday, and this circumstance joyned to what has been said, that the same day was near the Equi-

nox, gives the last determination to the *Epocha*.

We have therefore fought a new Equinoxial Moon, to which all these Characters do agree; and we have found that they agree to the New Moon, which happened in the 638th year after the Birth of Fesia Christ, on the 21 of March, according to the Julian form, on Saturday at 3 a Clock in the morning, in the Meridian of Siam.

This middle conjunction of the Moon with the Sun, according to the Rudolphine Tables which are now most used, happen'd on this day at Siam on the very fame hour, the reduction of the meridians being made according to our Observations: And according to these Tables 'twas 16 hours after the middle Equinox of the Spring; the Sun's Apogaum being at 19 degrees 4 of Gomini; the Moon's Apogaum 21 degrees; of Capricorn; and the Node defcending from the Moon at 4 degrees of Aries: so that this Æquinoxial Conjunction had also this in particular, that it was Ecliptick, being arrived at so little distance from one of the Nodes of the Moon.

This Astronomical Epocha of the Indians being thus determined by so many Characters, which cannot agree to any other time, by these Indian Rules are found the middle Conjunctions of the Moon with the Sun about the time of this Epocha, with as much exactness as by the modern Tables, amongst which these are some which for this time do give the same middle distance between the Sun and the Moon, to one or two minutes, the Reduction being made to

But from this Epocha, as they remove from it, the middle distances from the Moon to the Sun found by these Rules, do by one minute in twelve years surpassthose which the modern Tables do give, as we have before remarked: from whence it may be inferred that if these Indian Rules, at the time that they were made, gave the middle distances from the Moon to the Sun more exact than they have given them fince, they have been made very near the time of the Epocha established by these Rules. Yet they might be established a long time after, on some Observations made very near the time of the Epocha cha, thus they would more exactly represent these Observations than those of the other times remote from the Epocha: as it ordinarily happens to all the Aftronomical Tables, which do more exactly reprefent the Observations upon which they are founded, than the others made long before and after.

### III. Of the Civil Epocha of the Siameses.

BY the Rules of the first Section I judged, that the Civil Epocha which is in use at the East Indies, is different from the Astronomical Epocha of the Indian method which we have explained-

I have at prefent new affurances by feveral dates of Siamese Letters, which have been communicated to me by Mr. De La Loubere, and by other dates of the Letters which Father Tachard published in his second Voyage, in the year 1687; by which it appears that the Year 1687, was the 2231 from the Siamele civil Facha, which confequently refers to the 544th year before the Birth of Josu Christ, whereas by the 2<sup>d</sup> and 3<sup>d</sup> Rules of the 8<sup>th</sup> Section, and by other Characters of this Indian method, it is evident that the Astronomical

Epocha refers to the 7th Age after the Birth of Jesus Christ.

This Civil Siamese Epocha is in the time of Pythagoras, whose dogmata were conformable to those which the Indians have at prefent, and which these people had already in the time of Alexander the Great, as Onesicritus, sent by Alexander himself to treat with the Indian Philosophers, testified unto them, accord-

ing to the report of Strabo lib. 154

The Letters which the Ambassadors of Siam wrote the 24th of June 1687, were dated according to Mr. de la Loubere, in the eighth month, the first day of the decrease of the year Pitosaplec of the Era 2231. And according to Father Tachard, the eighth month, the fecond full Moon of the year lhoh napafoc of the Ara 2231. The full Moon happened not till the day following; and the lunary month which then ran, was the third after the Vernal Equinox; the first after this Equinox beginning the 12th of April in the same year, therefore the fift mouth from the Equinox was the fixth month of the Civil year, which must

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begin the 15th of November, 1686.

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It appears also that the same year was Leap-year of 13 months, and that there was one which is not put in the number of the others: for the 20th of Ottober in the fame year they reckon'd the fifteenth day of the eleventh Moon of the year 2231, and between the full Moon of Jane and that of Ottober there were 4 lunar months. Nevertheless they reckoned only three, seeing that at the full Moon in June they reckon'd the eighth month, and at that of Ottober they reckon'd only the eleventh; there was therefore in this interval of time a Leap-month which is not reckond. This Intercalation is likewife found by comparing the Letter from the Ambassadors with three of the King of Siam's Letters, of December 22 of the year 1687, recited by Father Tachardin, page 282, 287, and 407, which are dated the 3d of the decrease of the first Moon of the year 1231: and it appears that if the Moon of sune was the eighth Moon of the Civil year 2231, that of December was the fourteenth of the same Civil year, which is reckon'd for the first Moon of the succeeding years, tho the year be yet named 2231, whereas according to the preceding dates, it ought to be named 2232.

Perhaps they chang'd not the name of the Civil year, till it was sufficiently advanced, and had attained the beginning of the Astronomical year i or rather unto this time they do name it after two ways, For another date which Mr. de la Loubere communicated unto me, is thus, the eighth of the encrease of the first Moon of the Year 223, 2. which is the eleventh of December 1687. It feems that this manner of date denotes that the year may in this month be named either 2231, or 2232: which has relation to the form now used in the Northern Countries, where the dates are frequently fet down in two ways, viz. according to the Julian, and according to the Gregorian Calendar; and to the ten first days of the Gregorian year, is set a Year more than in the Julian.

By comparing the date of Ottober 20th which supposes that the first of the Moon was the 6th of this month (which day was also that of the new Moon) with the other date of December the eleventh, which supposes that the first of the Moon was the 4th of this month, there are found 59 days in two months, as the motion of the Moon requires. According to these dates the 22<sup>th</sup> of December must be the 19<sup>th</sup> of the Moon, that is to say, the fourth day of the decrease, which in the King of Stam's Letters is set down the 3<sup>th</sup> of the decrease, which in the King of Stam's Letters is set down the 3<sup>th</sup> of the decrease. crease, which in the Moon being supposed on the 15th which should denote the Intercalation of a daymade to the full of the Moon unless Letters should be antedated one day, or that there is one day wanting in the refemblance which

is made thereof to our Calendar. Amongst the preceeding dates, and some others which we have examined, there are only those of OHober 20th and December 11th that agree well together, and with the motion of the Moon, and in which they take the very day of the Moon's Conjunction with the Sun by the first day of the month. The other dates differ some days among them; for in those of June 24th they takes dates outer iome days among them; for in thoice of June 24.4 they takefor the first day of the month a day which precedes the Conjunction; on the contrary in the dates of December 2.2 they take for the first day of the month a day which follows the Conjunction. Thus the dates which for the first day of the Month do take the very day of the Conjunction, may be thought the most regular. We have calculated these Conjunctions, not only by the modern Table have 18 to 1 bles, but also by the Indian Rules, after the manner as we shall herein after declare, and we have found that they agree together in the same days of the

These Indian Rules may therefore serve to regulate the Calendar of the Siameles, though they be not at prefent exactly observed in the dates of the Letters, without a Calendar where the Intercalations of the months and days be regulated according to this method, it would be impossible to make also of thee holian Rules in the Calculation of the Planets, without committing the fame Error which would, be slipped into the Calendar: unless that this Error was known by the exact History of the Intercalations, and that regard was there-

unto had in the Calculation.

Though by the Indian Rules is fought the number of the months elapsed from one Epocha, by the means of a Cycle of 228 folar months, supposed equal to 325 lunar months, which is equivalent to the Cycle of our golden number of nineteen years, in the number of our folar and lunar months, which it comprehends: yet it is feen by most of the Siamese dates which we have been able to observe, that the first day of their month, even in this age, is hardly distant from the day of the Moons conjunction with the Sun; and that the Calendar of the Indians is not run into the Error into which our old Calendar was fallen, where the new Moons were regulated by the Cycle of the golden number, which gives them more flow than they are: fo that fince they have introduced this Cycle into the Calendar (which was about the fourth Age) to the Age paft, the error was amounted to above four days. But the Indians have avoided this faults by making use of the Rules of the L.Section to find the number of the lunar months; and of the Rules of the II. Section, to find the number of the days and hours which are in this number of months; which being founded on the Hypothesis of the greatness of the lunar months, which differs not from the real one, a fecond cannot want above a day in 8000 years; whereas the Ancient One, a recond cannot want above a day in 3000 years; whereas the Ancient Cycle of our golden number supposes that in 235 lunar months there are the number of days and hours which are in 19 Julian years, which do exceed 235 lunar months one hour 27'; 33", which do make 5 days in 1563 years. It appears also that the Calendar of the Indians is very different from that of

the Chineses, who begin their year, with the new Moon nearest the fifteenth of Aquarius, according to Father Martinius; or the fifth of the fame Sign, according to Father Couplet (which happen'd but a month and half, before the Vernal Equinox, and who regulate their Intercalations by a Cycle of fixty years; which the Tunquineses do likewise, according to the report of Father Martinius

### IV. The Method of comparing the Siamcse dates to the Indian Rules.

To examine whether the Siamele dates agree with the Indian Rules, we have found by these Rules the number of the months comprized in the years elapsed from the Astronomical Epocha, and the year current ,and we have thereunto added the month of the year current, which we have begun to compute by the fixth month of the Civil year, for the first date which was of the eighth month before the Intercalation of a month; and for the fecond date which was of the eleventh month, and after the Intercalation of a month, we have begun to compute the months of the current year, with the fifth of the eleven months which were then computed, which is the fame month that they have reckon'd for the fixth before the Intercalation of a month, according to the Explication which we have given to the fourth Article of the I. Section.

We have done the same thing for the following dates, having verified that it is necessary to begin to compute from the fifth month, during the refidue of the Astronomical year, and during that which immediately follows the Intercalacation. And having afterwards calculated the number of the days comprized in these sums of months according to the Rules of the II. Section, we have found that the number of the days found by these Rules, agrees with the number of the days comprehended between the Astronomical Epocha of the year

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638, and the days of the Conjunctions from whence they have taken the beginning of the months in feveral of these dates, and particularly in those of Ottober 20, and of December 8, which to us have appeared the most regular.

This method, which we have used to compare the Siamese dates to the Indian Rules, has made known to us the terms in our Calendar, between which must happen the new Moon of the fifth month of the Civil year after the Leapyear, or of the fixth month of the year after a common, whereby they mult begin to compute the months according to the 4th Article of the I. Section, and which may be considered as the first new Moon of a kind of lunisolar Astronomical year, which we have judged ought to begin after the Vernal Equinox, wherefore it is necessary largely to give an example of this Comparison, which will demonstrate the use of these Rules, and will serve as a demonstration of the Explication that we have made thereof.

## EXAMPLE for the I. DATE.

W E have fought what, according to the *Indian* Rules, ought to be the number of the diss comprised because the AA number of the days comprized between the Astronomical Epocha, and the middle conjunction of the eighth month of the Indian year 2231, in this

## By the Rules of the I. Section.

From the Astronomical Epocha of the Julian year of Jesus Christ 638, to the year 1687, there are 1049 years, which is the Astronomical to the 1st Article; having multiply d it by 12, according to the 3d Article, there are

12588 folar months.

It is necessary to add the months of the current year, Article 4; and because the Ambassadors computed the eighth month of the year 2231, before the Intercalation of a month, we have begun to compute from the fixth of these months, according to our Explication; thus to the eighth month, we shall have three months to add to 12588, which will make the fum of 12591.

Multiplying them by 7, Article 6th 1, the Product will be 88137.

Dividing it by 228, Article 6th 1, the Quotient will be 386, to add to 12591,

Article 7thly; and the fum will make 12977 lunar months.

## By the Rules of the II. Section.

Ultiplying this number of months by 30, Article 2d, the Product will give Multiplying them by 11, Article 4th, the Product will be 4282410.

Dividing this Product by 703, Article 6th, the Quotient will be 60914.

Having tubfracted it from 383310 artificial days, Article 8, there remains 383218 203, which is the number of the natural days elapfed from the Aftronomical Epocha to the new Moon of the eighth month of the Indian year

The Fraction is being reduced, gives 9 hours 4', 34", which this Conjunction happen'd later at Siam, according to these Rules, than that of the Astronomical Epocha of the year 638.

By the means of our Calendar is found the number of the days elapfed between the twenty first month of the Julian year 1638, and June 10th of the

Gregorian year 1687, by this Calculation. From the year 638, which was the second after the Bissextile 636, to the year 1687, which was the third after the Biffextile 1684, there are 1049 years,

amongst which there were 262 Biffextiles, which give 262 days more than as many common years. In 1049 common years of 365 days, there are 282925 days; and adding thereunto 262 days for the Biffextiles, there will be 483187 days in 1049 years, as well common as Biffextile, between March 21st. of the Julian year 638, and March 21st. of the Julian year 1687, which is March 31st. of the Gregorian year.

From March 31.10 fune 10th, there are 71 days, which being added to 383147, do give 383218 days between the 21st, of March of the Julian year 638, where is the Indian Epocha of the new Moons, and the 10th of Inne of the Gregorian year 1687, the day of the new Moon of the eighth month of the Siamese year 2231. This number of days is the same that we have found between these two

new Moons, according to the Indian Rules.

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To find the same number of days by the one and the other method in the Conjunction of October of the same year 1687, after the Intercalation, which appears, by comparing the date of this month with that of the month of June foregoing; it is inceffary to compute 8 months, beginning with the fifth of of the eleven which were reckond. In the Conjunction of November are reckond 8; and in that of December, from whence begins the first month of the year 2232, are computed 9, adding 8 months to those of the current year, to the new Moon of the 31st. of March 1688, from whence began the fifth month of the year 232. They began to reckon from this 5th month during the whole year, which follows the Intercalation, and which was common; and the whole year, which follows the intercalation, and which was compute from the 6th month only at the new Moon, which happen'd the 19th of April of this year 1689. They will also begin to compute from the 6th month, at the new Moon, which shall happen the 9th of April, to the Intercalation which shall be made in the fame year, after which they will intercalation which shall be made in the fame year, after which they will be the fame year, after which they will be made in the fame year, after which they will be made in the fame year, after which they will be the fame year. follow the same order as after the preceding Intercalation. We have thought fits distinctly to relate these Examples, thereby the more precisely to determine the 4th Article of the I. Section, in which it was possible to err, if it was not illustrated; and it could not be determined without several Calculations made ac. cording to the preceding method.

## V. The Terms of the first Months of the Julian Years.

H Aving by the fame method calculated, according to the *Indian* Rules, the middle Comunctions of the Moon with the Sun for feveral years of this and the following Age, we have always found that every one of these Conjunctions fell upon a day whereon the middle Conjunction happen'd according

to our Tables, but almost three hours later than by the Indian Rules.

By this means we have determined in our Calendar the Terms between which the new Moon must happen, from whence it is necessary to begin to compute the months of the year current according to the 4th Article of the L Section; and we have found that in this Age this new Moon is that which happen'd between the 28th of March, and 27th of April of the Gregorian year, which are at present the 18th of March, and 17th of April of the Julian year.

We have likewise found that these Terms in the Gregorian Calendar, do advance a day in 236 years, and do go back a day in the Julian Calendar in 302 years; which it is necessary to know, to be able to make use of these Indian

Rules amongst us.

To determine in these Calendars the Terms between which the new Moon must happen, from whence the Civil year of the Siameses ought to begin according to these Rules, it is necessary to establish a System of common and Biffextile years well digested in the Cycle of 19 years, which System should be such, that the fifth month of the first year after the Biffextile, and the fixth month of the other years, do begin in this Age between March 28th, and April 27th of the Gregorian year.

According to this Rule, the Civil year should begin in this Age before the 12th of December. For if it begins the 12th the year following, which would begin, December 1. would be after the common year, and according to the Rule they would not begin to reckon from the fifth month, which would happen the 29th of March, but with the fixth month, which would begin the 28th of April; which is contrary to what we have found by the Calculation, that in this Age it is needfay to begin to compute with the month which begins between March 28th, and April 27th. One might therefore be mitaken in the use of these Rules in the years which would begin after December 11th of the Gregorian

We find likewife by our Calculations, that according to these very Rules, the Siamefe year should begin on the 12th of December in the Gregorian year 1700, which will not be Biffextile. This will therefore be the most advanced Term, that must be a whole month distant from the preceding Term. Thus the new Moon, which will happen the Age following between the 12th of November, and the 12th of December, will be that from whence according to these Rules the

Civil year of the Stamele ought to begin.

Neverthelefs we have lately feen a date of the first of Jamary 1684, wherein it is supposed that the beginning of the Stamele year was at the new Moon, which happen of the 18th of December 1683. This date being compared with those of the Ambassadors of Siam, wherein it is supposed that the beginning of the year 2231, was at the new Moon, which happen'd the 16th of November 1686, would shew that the Terms of the first month of the Siamese year, according to theulage of these times, are at least 32 days distant from each other, altho according to the Rules, they ought not to be more than a lunary month, or thirty days distant.

This confirms what we have already remark'd that in this Age they conform not exactly to these Rules in the dates, althor they differ not much therefrom. But as these Rules are obscure, and that it is necessary to supply some Circumstances which are not distinctly expressed, it may easily happen that the People

Thus after having determined what should be done according to these Rules, it is necessary to learn from the Relations of Travellers what is actually practifed. Mean while we know by the dates which we have feen, that the prefent Practice is not much different from these Rules.

## VI. Divers Sorts of Solar Years according to the Indian

E Very one of these Terms whereof we have discoursed, may be considered as the beginning of a kind of Solar Year, the greatness of which is a as the beginning of a kind of Solar Year, the greatnels of which is a mean between the fulian and Gregorian Year, feeing that we have remarked, that in the fucceffion of Ages chele Terms do advance in the Gregorian Year, and go backward in the fulian: the Term which falls at prefent on the 28th of March, is to near the Vernal Aquinox, that it might be filled the Aguinoxial Term, and might be thought the beginning of a Solar Aftronomical Year.

Tis not possible to reconcile together the Rules of divers Sections which freak of the number of the years elapsed from the Epocha, under the name of the the property of the day wears.

Æra, without supposing divers forts of Indian years. The Era is spoken of in the I. Section, where we have said that the Era is the number of the years elapted from the Aftronomical Epocha. In the same Section it is resolved into solar and lunar months; and in the 2<sup>4</sup> Section the lunar months are refolved into artificial days of 30 for every lunar month, and into natural days fuch as are of common use.

The Ara is likewise spoken of in the IV. Section, wherein it appears that it is composed of a number of those very days which are found in the II. Section; fo that it would feem at first, that this was the Synthesis of the same Ara, the

Analysis of which is made in the I. and II. Section. But having calculated by the Rules of the L and II. Section, and by the Supplement, of which we shall speak, the number of the days that ought to be in 800 years, which number in the IV. Section is supposed to be 292207, we have there found only the number of 292197 days, 8 hours, and 29 minutes ; which

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is lefs by 9 days, 15 hours, 33 minutes, than that of 292207 days, which are supposed in the IV. Section, ought to be found in that very number of years. This difference is greater than that which is found between 800 *Julian* years, which confist of 292200 days, and 800 *Gregorian* years, which confist only of 292194 days, the difference of which is 6 days, and in 800 of these years, which result from the Rules of the two first Sections, there is a surplusage above the Gregorian years of 13 days, 8 hours, 24 minutes; whereas 800 years of the IV. Section, do 7 days exceed 800 *Julian* years, and 13 days the like number of Gregorian.

As the Gregorian is a Tropical year, which confifts in the time that the Sun employs in returning to the fame degree of the Zodiack, which degree is always equally diffant from the points of the Æquinoxes and Solftices; there is no doubt that the year drawn from the Rules of the L and IL Section, does nearer approach the Tropick, than the year drawn from the Rules of the IV. Section, which, as we have remarked, approaches the Aftral year determined by the return of the Sun to a fixed Star, and the Anomalifick determined by the Sun's return to its Appaeum, which feveral ancient and modern Aftronomers diffinguith not from the Aftral, no more than the Indians, supposing that the Sun's Appaeum is fixed amongst the fixed Stars, tho' most of the moderns do attribute

a little motion to it.

Nevertlelefs, it appears that the *Lodians* make use of the Solar year of the Nevertlelefs, it appears that the Tropick, when according to the Rules of the VII, VIII, X and XI. Sections, they calculated the place of the Sun and his Appgetum, and of the Moon and her Appgetum. For the time elapsed from the end of this year called *Kromanthiappome*, serves them to find the Signs, Degrees and Minutes of the middle motion of the Sun. They suppose then that this year consists in the Sun's return to the beginning of the Signs of the Zodiack lake one. The registed near

Tis true, that at prefent the Signs of the Zodiack are taken amongft us in two ways, which were not formerly diftinguished. When the Ancients had observed the tract of the Sun's motion thro the Zodiack, which they had divided into sour equal parts by the points of the Æquinoxes and Solftices; and that they had subdivided every fourth part into three equal parts, which in all do make the 12 Signs, they observed the Constellations formed of a great number of fixed Stars, which sell in every one of these Signs, and they gave to the Signs the name of the Constellations which are there sound, not supposing then that the same fixed Stars would ever quit their Signs.

But in the succession of Ages, it is found that the same fixed Stars were no more in the same degrees of the Signs, whether that the Stars were advanced towards the East in regard of the points of the Æquinoxes and Solstices, or that these very points were removed from the same fixed Stars towards the West, and it is now found that a fixed Star passes from the beginning of one

Sign to the beginning of another in about 2200 years.

Therefore feeing that Prolomy in the fecond Age of Jefus Christ, confirmed this as yet doubtful diffeovery, which had been made three Ages before by Hipparchus; there is a diffinction made between the Zodiack, which may be called local, which begins from the Aguinoxial point of the Spring, and is divided into 12 Signs, and the Afral Zodiack composed of 12 Constellations, which do fill retain the same name, tho' at present the Constellation of Arier has passed into the Sign of Tannu, and that the same thing has happened to the other Constellations which have passed into the following Signs.

Yet the Aftronomers do ordinarily refer the places and motions of the Planets to the local Zodiack, because it is important to know how they refer to the Æquinoxes and Solftices, on which depends their distance from the Æquinoxial and Poles, the various magnitude of the Days and Nights, the divertity of the Seasons, and some other Circumstances, the knowledg of which is of great refer.

Copernicus is almost the sole person amongst our Astronomers, who refers the places and motions of the Planets to the Astral Zodiack, by reason that he supplies

poses that the fixed Stars are immoveable, and that the Anticipation of the Earth. But they who follow his Hypathesis, cease not to denote the places of the Planets, in regard of the points of the Anticipation which we have a Zodiack, by reason of the Consequences of this Situation which we have

Twould be an admirable thing that the *Indians* who follow the *Dogmata* of the *Psthagoraans*, thould herein conform to the method of *Copernicus*, who is the

reftorer of the Hypothesis of the Psihagoreans.

Yet there is no appearance that they designed to refer the places of the Planets rather to any fixed Star, than to the Aguinoxial point of the Spring. For it seems that they would have chosen for this purpose some principal fixed Star, it seems that they would have chosen so the Principle of his Zodiack, has chosen the Point to which refers the Longitude of the first Star of Aries, which was found in the first degree of Aries, where was the Aguinoxial Point of the Spring, when the Aftronomers began to place the fixed Stars in regard of the Points of the Aguinoxes and Solstices.

But at the place of the Heavens, where the Indiani place the beginning of the Signs of the Zodiack according to the IV. Section, and the following Sections, shere is not any confiderable Star; there are only thereabouts fome of the finalleft and most obscure Stars of the Constellation of Piscas but it is the finallest and most obscure Stars of the Constellation of Piscas but it is the place where was the Æquinoxial Point at the time of their Astronomical Epocha, from whence the fixed Stars advanced afterwards towards the East; for that the Sun, by its annual motion, returns not to the same fixed Star till about 20 minutes after its return to the same Point of the local Zodiack. It was difficult to perceive this little difference in sew years to the Ancients, who did not immediately compare the Sun to the fixed Stars, as it is at present compared, and who compared only the Sun to the Moon during the day, and the Moon to the fixed Stars during the night, the some the day, and the Moon to the place amongst the fixe Stars, as well by its own motion, which is quick and irregular, as by its Parallax, which was not well known to the Ancients. Wherefore they very lately only perceived the difference that there is between the Tropical year, during which the Sun returns to the Pacints of the Æquinoxes and the Solstices, and the Astral year during which it returns to the fame fixed Stars, a not then they had a Solar year of 365 days and a quarter, which is found at present to be the mean between the Tropical and the Astral, and that it surpasses the Tropical by 11 minutes, and is shorter than the Astral by 9 minutes.

# VII. The Determination of the Magnitude of the two forts of Indian Years.

I T is easie to find the greatness of the year which is supposed in the IV. Section, by dividing 292207 days by 800 years, each of which is found to confist of 365 days, 6 hours, 12, 36,
It is a little more difficult to find that which results from the I. and II. Secti-

It is a little more difficult to find that which refults from the I. and II. Sections, in which it is neceffary to supply some Rules which are there wanting, to be able to make this use thereof. For in the I. Section it is supposed that the years are composed of entire lunar months, and that the number of the months which remain, is known besides: And in the II. Section it is supposed that the entire months have been sound by the I. Section, and that the number of the days which remain, is known besides: yet a number of solar years, which is not but very rarely composed of entire lunar months, must have not only the number of the days determind. Indeed, we find that these Rules do tacitly suppose a solar year composed of months, days, hours and minutes, which regulate the lunifolar years.

days, nours and minutes, which regulate the initiotal years.

The way of finding it by thefe Rules, is to refolve a year into folar and lunar months, by the 3<sup>a</sup>, 5<sup>th</sup>, 6<sup>th</sup> and 7<sup>th</sup> Rules of the 1. Section, and not to neglect the

fraction which remains after the division made by the 6th Article of the same Section; but to reduce it into days, hours, minutes and feconds, or into the decimal parts of a month, going to a thousand millions, to prepare it for the operations which mult be performed according to the 1<sup>th</sup>, 2<sup>th</sup>, 3<sup>th</sup>, 4<sup>th</sup>, 6<sup>th</sup> and 8<sup>th</sup> rules of the II. Section, as well for this fraction, as for the whole months; and in fine, to reduce after the same manner the fraction called Anamaan in the

After a plainer manner may likewise be found the greatness of this year, by making use of the Hypotheses, which we have infolded in these two Sections, to find a period of years, which should be composed of a number of intire lunar

months, and likewise of a number of intire days.

By supposing, according to our explication of the Hypotheses of the II. Section, that a lunar month is equal to 30 artificial days, and that 703 artificial days are equal to 692 natural days, it will be found that in 703 lunar months there are 2076s! natural days, and adding thereunto the Hypothessis of the I. Section, according to which the number of 228 folar months which do make 19 years) are equal to 235 lunar months, it will be found that in 13357 folar years there are equatio 25) funa months, it will be found that in 1553 / floral years there are 167205 entire lunar months, which do make 4878600 natural days, from whence it refults that a lunar month, according to these Hyperbeles, consists of 29 days, 12 hours, 44', 2", 23"', 23"', and the solar year of 365 days, 5 hours, 55', 13', 46'', 5'''.

This Line was consistent the solar Hearths of these was Sections assets.

This Indian year concealed in the tacit Hypothetes of these two Sections, agrees This Indian year concealed in the tacit Hypothetes of these two Sections, which conswithin two seconds with the tropical year of Hipparchus and Ptolony, which conswithing two seconds with the constitutions of the second seconds. fifts of 365 days, 5 hours, 55', 12"; and to near 13 feconds with that of Rabbi Add: an Author of the third Age, which confifts of 365 days, 5 hours, 55', 26". If it could be verified that these years and these months, had been determined by the Indians on the Observations of the Sun, independently from the Western Astronomy, this agreemet of several Astronomers, of different Nations, so remote one from the other, would ferve to prove that the Tropical year has anciently been of this bigness, though at present it is found lefter by 6 minutes, which in 10 years do make an hour, and in 240 years a whole day. But it is probable that this greatness of the year has been determined only by the Observations of the Eclipses and other Moons, and by the Hypothesis that Nineteen folar years are equal to Two hundred thirty five lunar months; which Hypothesis so nearly approaches the truth, that it was difficult to observe the difference thereof, but in the fuccession of Ages; which prevented Hipparacus and Ptolony from departing therefrom in the determination of the greatness of the solar year.

## VIII. The Antiquity of these two sorts of Indian years.

WE have not a more precife knowledge of the *Indian* years, than that which we have drawn from these Rules. Scallger who has carefully collected all the Memoirs that he could gather from the ancient Authors, from the Patriarchof Anioch, from the Millionaries, and different Travellers, and who has inferted them, not only in his work de Emendatione temporum, but also in his Commentaries upon Manilius, and in his Isagoge Chronologica, judging that these Memoirs might please all those that have any curiosity for Learning, establishes nothing thereon which satisfies Patavius; and it is certain, that Scaliger's Indian year refers neither to the one nor the other of those which we have now

But in the Cardinal de Cufa's Treatise of the Calendar, there are some vestigia of these two forts of Indian years. That which we have drawn from the IV. Section, is there found almost in formal terms; that which we have drawn from the Comparison of the L and II. Section is found there also, but after a manner so obscure, that the Author himself who relates it has not comprehend-

This Cardinal fays, that according to Abraham Aven Ezra, an Astronomer of the Twelfth Age, the Indians do add (to the year of 365 days) the fourth

part of a day, and the fifth part of an hour, when they fpeak of the year in part or a day, and the inth part of an nour, when they head of the year in which the Sun returns to the fame Star. This year conflicts then of 365 days, 6 hours, and 12'; and it agrees to near 36 feconds with the year that we found by the Hypathefu of the IV. Section. This Author adds, that they who feels of heaven coording to which the thirty do repulse their 1900 to 1900 feels of the results of the 1900 feels of the 1900 the year according to which the *Indians* do regulate their Feafts, do alledge that from the fourth part there refults a day more in 320 years. Ex quarta plus 320 monis diem exangere : which he explains after a manner which cannot fubfilt. This year, faith he, is greater than our common year, by one fourth, 23 feconds, and 30 thirds, which in 353 years do make a day. The means of drawing a restonable fine the seplication is not evident. For a day divided in three hundred fifty three years gives to each year 4 minutes, 4", 45"; and not 23", 30". The true fente of these words, Ex quarta plus 320 annit dien exergere, is, in my opinion, that 320 years of 365 days and a quarter, do by one whole day furbals 320 of these Indian years. One day divided in 320 years, gives to each 4 minutes, 30 seconds 3 which being deducted from 365 and a quarter, do leave 365 days, 5 hours, 55 minutes, and 30 feconds; which will be the greatness of the year, which regulates the *Indian* Feaths. This year exceeds not but by 16 the year, which regulates the mann relation of feconds, the greatness of the year, which we have found by the comparition of the Hypotheses of the 1 and 11. Section of the Indian Rules: wherefore there is no reason to doubt but it is this which is here treated of.

## IX. The Epocha of the Synodical solar years of the Indians

This fort of folar years, drawn from the rules of the two first Sections, may be called Synodical, because that it refults from the Equality which is supposed to be between 19 of these solar years, and 235 lunar months, which terminate at the Conjunction of the Moon with the Sun. For the Epocha of these years may be taken the day and hour of the middle Conjunction of the Moon with the Sun. which happen'd the very day of the Aftronomical Epocha, Moon with the Sun. which happen a the very day of the Antonomical Epitons, to near a day of the middle Equinox of the Spring; the some may infer from the 5th, 6th, and 8th Articles of the II. Section, that for the Epiths of these years they take the minute which immediately follows this middle Conjunctives: on, at the Meridian to which the rules of this Section were accommodated on, at the previous to which the rules of this section were accommodated. Thus in particular calculations, there will be no more need of the Operation preferibed in the 5<sup>th</sup> Arricle of the II. Section, which is founded on the difference which was between the inflant of this middle Conjunction and the midnight following, at a particular Meridian more occidental than Siam; nor of the Operations preferibed in the 8th Article of the VII. Section, and at the 9th Ataticle of the X. Section, which we have judged to denote the minutes of the motion of the Sun and Moon, between the Meridian of Sizm, and the Meridian to which the rules of the II. Section had been accommodated; and it will fuffice to have had regard to these three Articles once for all.

The Epochs of these Synodical years will therefore be the 21st of March in the 638th year of Jesiu Christ, at 3 a clock, 2 minutes in the morning at the

the 638° year of Jejim Chriff, at 3 a Clock, 2 minutes in the morning at the Meridian of Siam.

The greatness of these years, according to the VII. Chapter of these Reflexions, consisting of 365 days, 5 hours, 55', 13", 46"', 5''', we shall find the beginning of the following years in the Julian years, by the continual addition of 5 hours, 55', 13", 46"', 5"'', deducting a day from the summ of the days which results from this addition in the Biffextile years; thus we shall find the beginning of these follar Sunodical years, the dates of which we have evaluate the partial part of these follar Sunodical years, the dates of which we have evaluate the partial part of these follar Sunodical years. the beginnings of these solar Synodical years, the dates of which we have exanind as we have here calculated them, at the Meridian of Siam with the hours computed after midnight:

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In the Julian Years. Davs H. M. 2[ 57 1683 March 17 March 17 3 52 Biff. 1684 March 17 1685 March 17 15 42 21 38 1686 1687 March 17 3 33 March 17 1688 Biff.

Astronomical years compleat.

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In the Gregorian years.

1	Days.	H.	Μ.
1045	March 27	21	57
1046	March 27	3	52
1047	March 17	9	47
1048	March 27	15	42
1049	March 27	2[	38
1050	March 27	3	33

These beginnings of years happen a day and a half before the middle Equinoxes of the Spring, according to Ptolony; and five days and a half before the fame Equinoxes, according to the moderns: wherefore they may be taken for a kind of middle Equinoxes of the *Indians*. The first new Moon after the beginnings of these folar Synodical years, must be the fifth of the Civil year when the Intercalation precedes these beginnings, as it happen'd in the year 1685 and 1688; and it must be the fixth of the Civil year in the other years.

These are the first new Moons since the Equinoxes of this fort, calculated for the preceding years.

Astronomical years compleat.	Gregorian yea	rs current.
1045 1046 1047 1048 1049	Biff.	1683 1684 1685 1686 1687 1688
Solar Altronomical years current.  1046 1047 1048 1049 11950 1051	The first Conjunt mical yea  Days. April 25 April 3 April 3 April 22 April 11 March 31	Hions of the Astrono- rs current.  Asternoon. H. M. 22 41 7 30 16 18 14 50 22 38 7 27

## Of the Indian Period of the 19 years.

To know the first Conjunctions of the solar synodical Indian years in our Calendar, it is sufficient to calculate the beginnings of the year from 19 to 19 years after the Epocha. For

For every nineteenth folar fynodical year from the Epocha ends with the middle Conjunction of the Moon with the Sun, from whence begins the twentieth year. The greatness of this period is found by resolving 19 years into lunar year. The greathers of this period is bound by reduving 49 years into linar months by the 3d, 5th, 6th and 7th Articles of the I Section, and by refolving the lunar months into days by the 2d, 4th, 6th and 8th Articles of the II Section; and in fine, by reducing the fraction of the days called Animalm, into hours, minutes, feconds and thirds: and by this means it will be found that the Indian period of 19 years, confifts of 6939 days, 16 hours, 29 minutes, 21 feconds, 35 thirds

Tho this Indian Period of 19 years agrees in the number of the lunar months. which it comprehends, with the periods of *Numa*, *Maton*, and *Calippus*, and with our Cycle of the Golden number, as we have ren. ntked in the Explication of the I. Section; yet it is different in the number of the hours.

That of Meto which contains 6940 days is longer by 7 hours, 30 minutes, 38 feconds, 25 thirds, than the Indian. That of Calippus and of our golden number which contain 6939 days and 18 hours, are longer by 1 hour, 30 minutes, 38 feconds, 25 thirds, than the Indian. That of Numa must be of a number of whole days, according to Titus Livius, whose words are these: Ad cursum Lune in duodecim menses describit annum, quem (quia tricenos dies singulis mensibus Luna non explet, defuntque dies solido anni, qui solstitiali circumagitur orbe) intercalares mensibus interponendo, ita dispensavit, ur vigesimo anno ad metam candem solis unde orsi essent, plenis annorum spatiis dies congruerent. In all the Manuscripts that we have feen, it is read vicesimo anno, and not vigesimo quarto. as in tome printed Copies.

The period of 19 years of the Indians is therefore more exact than these periods of the Ancients, and than our golden Cycle; and it agrees to 3 minutes, and 5 or 6 feconds with the period of 235 lunar months established by the moderns, which do make it of 6939 days, 16 hours, 13 minutes, 27 feconds.

This is the beginning of the current *Indian* period of 19 years, and of the reft which follow for above an Age in the *Gregorian* Calendar, at the Meridian of Siam, with the hours after midnight.

		Days.	Н.	M.
1683	1 March	27	21	57
1702	March	28	14	26
1702	March	28	6	56
Biff. 1740	March	27	23	25
	March	28	15	54
1759 1778	March	28	8	24
	March	28	0	53
1797 Biff: 1816	March	28	17	2 7,
Dill. 1010	1 4.44.00			

## Of the Indian Epacts.

THE  $E_{Pall}$  of the months, is the difference of the time which is between the new Moon, and the end of the folar month current; and the annual Epalt is the difference of the time, which is between the end of the fimple lunar or embolismic year, and the end of the folar year which runs when the lunar year ends. According to the exposition of the I Section, 228 lunar months, more 7 other lunar months are equal to 228 solar months. Dividing the whole therefore by

228, I lunar month more 3, of a lunar month is equal to a folar month.

The Indian Epath of the first month, is therefore \$\frac{1}{2}\$, or a nunar month sequent to a tolar month. The Indian Epath of the first month, is therefore \$\frac{1}{2}\$, of a lunar month. The Epath of the fecond \$\frac{1}{2}\$ and for of the reft; and the Epath of 12 months, which do make a simple lunar year; is \$\frac{1}{2}\$ the Epath of two years: \$\frac{1}{2}\$ the Epath of 3 years would be \$\frac{1}{2}\$ but because that \$\frac{1}{2}\$ are a month, a month is added to the third year, which is Embolismic, and the reft is the Epath. \$\frac{1}{2}\$ \$\frac{1 Thus the Epact of fix years, is ----The Epatt of 18 years, is -And adding thereunto the *Epatt* of a year, which is — The *Epatt* of 19 years would be which do make a lunar month

To the nineteenth year is added a thirteenth month, to make it Embolismic;

thus the Epast at the end of the nineteenth year, is o.

If the lunifolar years are ordered after this manner, they will always end before the fynodical Equinox, or in the Equinoxit felf. But they may be fo ordered, that they end always after the fynodical Equinox: which will happen, if when the Epath is o, they begin them with the new Moon, which happens a month after the synodical Equinox: and after this manner the first month of the Astronomical year will commence at the beginning of the fifth month of the Civil year after the Embolisme; whereas in the year of the first method, the first month would end at the beginning of the fifth month of the Civil year after the Embolisme.

This Indian Epast is a great deal more exact than our vulgar Epast, which augments 11 days by the year; so that they deduct 30 days, when it exceeds this number, taking 30 days for a lunar month, and the nineteenth year they substract 29 days to reduce the Epocha to nothing at the end of the nineteenth

lunifolar year.

The Indian Epact of a month, being reduced to hours, confifts of 21 hours 45', 33", 46". The Epatt of a year conflits of 10 days, 21 hours, 6', 45'. The Epatt of 3 years is 3 days, 2 hours, 36 minutes, 13 feconds. The Epatt of 11 years which is the leaft of all in the Cycle of 19 years, is 1 day, 13 hours,

The Indian Epast may be consider'd in respect of the Julian and Gregorian years: and it will ferve to find the beginning of the Civil and Aftronomical years of the Indians in our Calendar, after they thall have established an Epocha

and denoted the Terms.

From a Common or Biffextile year, to the fucceeding common, Julian or Gregorian year, the Indian Epatt consists of 10 days, 15 hours, 11'. 32". From a common year to the following Biffextile year, the Indian Epact is II

days,15 hours, 11', 32". The annual Epath must be substracted from the first new Moon of a year, to

find the first new Moon of the following year-

But when after the Substraction, the new Moon precedes the Term; they add a month to the year to make it Embolismic. Thus having supposed the first new Moon after the synodical Equinox of the year 1683, as in Chapter IX, on the 25th of April, 22 hours, and 41 minutes after noon, that is to fay, on the 26th of April, at 10 a clock, 41 minutes of the morning in the Meridian of Siam: to have the first new Moon of the following year 1684, which is Biffextile, they will substract from this time 11 days, 15 hours, 11 minutes, 32 feconds, and they will have the 14th of April, at 19 hours, 29 minutes, 28 seconds of the year 1684: and to have the first new Moon of the solar synodical year, of the year 1685, which is common, they will substract from the preceding days, 10 days, 15 hours, 11 minutes 32 feconds; and they will have the 4th of April at 4 hours, 17 minutes, 56 feconds.

In fine, to have the first new Moon of the folar spacial year of the follow-

ing year 1686, which is common, deducting likewise the same number of days, they will have the 24th of March, at 13 hours, 6 minutes, 24 feconds. But because that this day precedes the term of the fynodical years, which for this Age hath been found the 27th of March; it is necessary to add a lunar month of 29 days, 12 hours, 44 minutes, 3 feconds; thus the year will be Embolithnic of 13 Moons, and they will have the first new Moon of the synodical Indian year the 23d of April at 1 hour, 50 minutes, 27 feconds in the morning at Siam, and continuing after the same manner, they will have all the first new Moons of

the following years.

In these Indian rules the name of an Embolismick or Assikamaat, agrees to

the year which immediately follows the Intercalation.

The lunifolar years may likewise be order'd in such a manner, that the addition of the intercalary month may be made when the Epact exceeds 114, which do make the half of the month; to the end that the term might be as a medium between the feveral beginnings of the years, some of which commence soon-

er, and others later; as it is practifed in our Ecclefiastical years, which began before the Vernal Equinox, when the Equinox arrives before the 15th of the Moon; and which begin after the Equinox, when the Equinox happens after the 14th of the Moon. But it is more commodious for the Aftronomical Calculations to begin the year always before, or always after the Equinox, as it is practifed in the Astronomical Indian year, according to our Explication.

Nevertheless it is necessary to remark that the point of the Zodiack, which the Indians do take for the beginning of the figns, according to the Rules of the IV. and following Sections, and which they confider in some fort as the Æquinoxial point of the Spring, is in this Age removed 13 degrees from the Aftronomical Term of the years discoursed of in the I Section; fo that the Sun arrives there the fourteenth day after the fynodical Aguinox. Wherefore a part of the Aftronomical lunitolar years which begin after the Term established by the Rules of the I. Section, will begin in this Age before this fort of Æquinox: and the other part will begin after; so that this fort of Æquinox is as it were in the middle of the several beginnings of the lunisolar years which begin in the fifth and fixth month of the Civil year.

## XII. A Correction of the lunar Months, and of the folar Synodical years of the Indians.

T is very easy to accommodate the lunar months of the Indians and their solar I synodical years to the modern Hypotheses.

After having made the calculations according to the Indian Rules, it is necesfary to divide the number of the years elapfed fince the Aftronomical Epocha by 6 and by 4. The first Quotient will give a number of seconds to substract from the time of the new Moons calculated according to these Rules.

## EXAMPLE.

In the year of Jesus Christ 1688, the number of the years elapsed from the Astronomical Epocha of the Indians is 1050. This number being divided by 6, the Quotient, which is 175, gives 175 minutes, that is to fay 2 hours, 55 mi-

This same number being divided by 4, the quotient is 262, which gives 262. feconds, that is to fay 6 minutes, 22 feconds to substract; and the Equation will be 2 hours, 48 minutes, 38 feconds. Having added this Equation to the first Conjunction of the solar Synodical year 1051, which, according to thefe rules, happen'd the 31ft of March, in the year 1688, at 19 hours, 28 minutes, 24 feconds, after midnight; the middle Conjunction will be the 31ft of March, at 22 hours, 17 minutes, 12 feconds, at the Meridian of Siam. The fame Equation ferves to the Synodical years which refult from the time of 235 lunar months divided into 19 years.

The first division by 6 will suffice, if they take once and a half as many se-

conds to substract, as there are found minutes to add.

## XIII. The difference between the folar Synodical, and the Tropical years of the Indians.

IF the Indians take for a Tropical year the time which the Sun employs in returning to the beginning of the Sigus of the Zodiack, according to the fourth and following Sections; the difference between these years and the Synodical is confiderable, as we have already remark'd. According to the Western Astronomy, the beginning of the Signs is the point of the Vernal Equinox, where the afcending demicircle of the Zodiack, terminated by the Tropicks, is inter-

fected by the Equinoxial; for they hold no more to the Hypothesis of the Ancients, who plac'd the Equinoxes at the eighth parts of the Signs: and the Tropical year is the time that the Sun employs in returning to the same point, whether Equinoxial or Tropical.

The Conjunctions of the Moon with the Sun, which happen in the points of the Equinoxes, return not precifely at the end of the nineteenth Tropical year: for this nineteenth year ends about two hours before the end of the 235th

lunar month, which terminates the nineteenth Synodical year.

I fay, about two hours: for in this the modern Astronomers agree not among themselves to 9 or 10 minutes, because that the time of the Equinoxes being very difficult to determine exactly, they agree not in the exactness of the Tropical year but to near half a minute; tho they be almost unanimously agreed even to the thirds, in the greatness of the lunar month. Those that do make the greatness of the Tropical year of 365 days, 5 hours, 49 minutes, 4 feconds, and 36 thirds, will have the period of 19 folar Synodical years above two exact hours longer than the period of 19 Tropical years: They that make the Tropical year longer, will have a lefter difference; and they that make the Tropical year shorter, as most of the Astronomers do at present, will have it greater. It may here be supposed that this difference would be 2 hours wantting 3 minutes, feeing that the defect of the lunar Indian months in 19 years is 3 minutes, and that the Tropical year would conflit of 365 days, 5 hours, 48 minutes, 55 feconds. Thus, if at every 19th year from the Aftronomical Epocha of the Indians, they deduct a hours from the Equinoxial Term, calculated by the Indian rules without the correction; and if they deduct also 14 hours 46 minutes for the time by which it may be supposed that the middle Equinox precedes the *Epocha* of the new Moons, according to the modern *Hypotheles*; they will have the middle Equinox of the Spring of the year proposed fince the Epocha, conformable to the modern Hypotheses.

### EXAMPLE

In the year 1686 the number of the years fince the Astronomical Epocha of the Indians is 1048. This number being divided by 19, the Quotient is 55 10, which being doubled gives 110 hours, 19 minutes, that is to fay, 4 days, 14 hours, 19 minutes; to which having added for the Epocha 14 hours, 4 minutes, the fumm is 5 days, 5 hours, 5 minutes: and this fumm being deducted from the term of the same Synodical year 1048, which has before been found on the 27th of March, 1686, at 15 hours, 42 minutes of the evening; there remains the 22<sup>d</sup> of March, 10 hours, 37 minutes of the Evening, at the Meridian of Siam, for the middle Equinox of the Spring of the year 1686.

### XIV. An Examination of the great lunifolar period of the Indians.

IN the VII. Chapter of these Reslexions we have found, that the Period of 13357 years is composed of 165205 entire lunar months, which do make 4878600 whole days, according to the Rules of the II. Section. This Period according to the Hypothesis of these Rules, brings back the new Moons which terminate the Indian synodical years, to the same hour and to the same minute under the fame Meridian.

But having examined it by the method of the XII. Chapter of these Reflexions, it will be found that it is shorter than a period of a like number of lunar months, according to the modern Aftronomers, by I day and 14 hours, which is almost the Epact of 11 years: and by the method of the XIII. Chapter, it will be found that the Anticipation of the Æquinoxes in regard of this number of synodical years of the Indians is 54 days and 5 hours. If they retrench 11 years from this period, there will be one of 13346 years, composed

of 165069 lunar months, or of 4874564 days, which will be more conformaable to the modern Hypothesis.

# XV. The great lunifolar Equinoxial period, conformable to the preceding corrections.

 ${f B}$  Ut inftead of correcting the great period foregoing, it is more proper to find out a much thorter, which brings back the new Moons and the Equinoxes to the same hour under the same Meridian, thereby to establish some Afronomical Epocha's more near, and to abridge the Calculations which are fo much the longer, as the Bpocha's are more diftant from our time.

It is extreamly difficult, or rather it is impossible to find some short and precise periods, which conjunctly reduce the new Moons and the Equinoxes to the fame Meridian. Vieta proposes one for the Gregorian Calendar of 165580000

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years, which comprehends 2047939047 lunar months.

It is not possible to verifie the exactness of these periods by the comparison of the Observations that we have, the ancientest of which are only of 25 Ages; and these long periods serve not our design, which is to bring the Epocha's nearer. It is better to make use of the shortest, tho less exact periods, and to denote

how they want of being exact according to the Hypothefes which we follow. By the rules of the first Section, and by our additions, it is found that 1040 fynodical Indian years do make 12863 lunar months, and 12221 5 and by the rules of the II. Section it is found that this number of 12863 months without the fraction makes 379851 days, 21 hours, 24 minutes, 19 feconds.

According to the correction made by the method of the XII. Chapter of these Reflexions, to this number of days it is necessary to add a hours and 49 minutes, to render it conformable to the Hypotheses of the Modern Astronomers: thus in this number of 12863 months, there are 379852 whole days, and 13 minutes, 19 feconds of an hour.

The fame number of months, with the fraction according to the Rules of the II. Section, and according to our additions, makes 379856 days, 13 hours, 16 minutes, 43 feconds; which do make 1040 fynodical Indian years.

The difference by which their years exceed the Tropical years, by our method of the XIII Chapter of these Reflexions, is found of 4 days, 13 hours, 28 thod of the AIII Chapter of these Renexions, is found of 4 days, 13 hours, 28 minutes, 25 feconds; and this difference being deducted from 379876 days, 13h, 16', 43'', there remains 379871 days, 23 hours, 48 minutes, 28 feconds, for 1040 Tropical years, and to make 379872 whole days, there wants only 11 minutes and 32 feconds, during which the proper motion of the Sun is not fending.

## XVI. A Modern Epocha of the New Moons, extracted from the Indian Epocha.

HAving added 1040 years to the Indian Epochs of the 638th year of felm Christ, there will be the year 1678 for a new Epochs, in which the Conjunction of the Moon with the Sun will happen the day of the middle Equinox, 13 minutes of an hour later in respect of the sameMeridian, and 25 minutes later in respect of the middle Equinox, so that the Conjunction happening in the year 638 at Siam, at 3 a clock, 2 minutes in the Morning: in the year 1678 it will there happen at 3 a clock, 15 minutes in the Morning.

During this interval the Anticipation of the Equinoxes in the Julian Calendar is 8 days, which being deducted from 21, there remains 135 and thus the arr is o days, which being deducted from 21, there remains 133, and thus the middle Equinox, which in the year 638 was on the 21 of March, is found in the year 1678 on the 13 of March of the fullan year, which is the 23 of the Gregorian year. The middle Conjunction will therefore happen in the year 1678,

on the 23 of March at 3 a clock, 15 minutes in the morning at the Meridian of Siam; that is to fay, the 22 of March at 8 a clock, 41 minutes of the Evening at the Meridian of Paris.

## XVII. Modern Epocha's of the Apogaum, and Node of

B Ecause that in this *Epicha* the new Moons, the *Apoganm*, and Node of the Moon were too remote from the Equinox, we have found an Equinoxial Epocha of the Apogaum, which precedes by 12 years that of the new Moon; and an Epocha of the Nodes, which follows it 12 years.

At the middle Equinox of the Spring, in the year 1666, the Apogeum of the Moon was at the Twentieth degree of Aries; and at the end of the prefent Julian year 1689, the North Node of the Moon will be at the beginning of Aries; but at the middle Equinox of the Spring 1690, it will be in the 26 degree and half of Pifces, at 3 degrees and half of the Sun.

The Apagaum of the Moon performs a revolution according to the succession of the Signs in 2232 days, according to the Indian Rules; or in 2231 days and a third, according to the modern Astronomers. The Nodes of the Moon, of which there is no mention in the Indian Rules, do perform a revolution contrary to the fuccession of the Signs in 6798 days ...

By these Principles there will be found as many Epocha's of the Apoganin and Nodes, as shall be defired.

### XVIII. An Epocha of the new Moons near the Apogaum, and the Nodes of the Moon, and the middle Equinox of the Spring.

T is not found that the Equinoxial new Moon should happen nearer our time, and alregather neares its description. time, and altogether nearer its Apogaum and one of its Nodes, than the 17 of March in the year of J. Christ, 1029. This day at noon, at the Meridian of Paris, the middle place of the Sun was in the middle of the first degree of Aries, at 3d egrees and half from the middle place of the Moon, which joyned with

the Sun the Evening of the same day.

The Apgram of the Moon preceded the Sun a degree and half; and the defcending Node of the Moon preceded it a degree, the Apogeum of the Sun being in the 26th degree of Gemini.

Twould be needless to seek out another return of the Moon to its Apoganm, to its Node, to the Sun, and to the Vernal Equinox. The concourfe of all these circumstances together being too rare, it is necessary to rest satisfied with having some Epocha's separated at diverse other times, of which here are three

The middle conjunction of the Moon with the Sun in the middle Equinox of the Spring, happened in the year of J. Christ 1192 on the 15 of March about Noon at the Meridian of Rome.

The Apogaum of the Moon was at the beginning of Aries, in the middle Equinox of the Spring, Anno 1460, on the 13 of March.

The descending Node of the Moon was at the beginning of Aries, in the middle Equinox of the Spring, Anno 1513, on the 14 of March.

Twill not be needless to have some particular Epocha's of the new Moons proper for the Julian Calendar, to which most of the Chronologers do refer all the times past.

Julius Cafar chose an Epocha of Julian years, in which the new Moon happened the first day of the year. Twas the 45<sup>th</sup> year before the birth of Jesus Chriss, which is in the rank of the Bissextiles, according as this rank was afterwards established by Augustus, and as it is still observed. The

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The first day of January of the same forty fifth year before Jefus Christ, the middle conjunction of the Moon with the Sun happened at Six a clock in the Evening, at the Meridian of Rome.

And the first of January in the 32d year of Jesus Christ, the middle conjunction happened precisely at Noon at the Meridian of Rome.

The most commodious of the Epocha's, near the middle conjunctions in the Julian years, is, that which happened the first of January, Anno 1500, an hour and half before Noon at the Meridian of Paris.

## XIX. An Ancient Astronomical Epocha of the Indians.

IN the III. Chapter of these Reflexions we have remarked, that the Siameses in their dates make use of an Epocha, which precedes the year of Jesus Christ by 544 years, and that after the twelfth or thirteenth month of the years from this Epocha, which do now end in November or December, the first month which follows, and which must be attributed to the following year, is yet attributed to the fame year: which has given us ground to conjecture, that they attributed to the same year; the other months to the beginning of the Astronomical year, which begins at the Vernal Equinox. This conjecture has been confirmed by the report of the same year. ed by the report of Mr. de la Lonbere, who likewife judges that this Ancient Epocha must also be an Astronomical Epocha.

The extraordinary manner of computing the first and second month of the same year after the twelfth or thirteenth, may cause a belief that the first month of these years, which begins at present in November or December, began anciently near the Vernal Equinox, and that in process of time, the *Indians*, either thro negligence, or to make use of a Cycle too short, as would be that of 60 years which the Chineses do use, have sometimes failed to add a thirteenth month to the year which ought to be Embolifinick, whence it has happen'd that the first month has run back into the winter; which having been perceived, the winter months, now called firft, fecond and third, have been attributed to the preceding year, which according to the ancient infittution ought not to end but at

Spring.

Thus the Indian year, which was called 2231, at the end of the year 1687 of

Thus the Indian year, which was called 2231, at the end of the year 1687 of Jessus Christ, ought not to end, according to the Ancient Institution, till the Spring of the year 1688. Having substracted 1688 from 2231, there remains 543, which is the number of the compleat years from the ancient Epocha of the Indians, to the year of fefus Christ. This Epocha appertains therefore to the current year 544 before Jefus Christ, according to the most common way of com-

In this year the middle conjunction of the Moon happened between the true Equinox, and the middle Equinox of the Spring, at 15 degrees distance from the North Node of the Moon, the 27th of March, according to the Julian form, a Saturday, which is an Aftronomical Epocha almost like to that of the year 638, which has been chosen, as more modern and more precise than the former.

Between these two Indian Epocha's there is a period of 1181 years, which being joyned to a period of 19 years, there are two periods of 600 years, which reduce the new Moons near the Equinoxes.

## XX. The Relation of the Synodical years of the Indians, to those of the Cycle of the Chineses of 60 Years.

A Coording to the Chronology of China which Father Couples published, and according to Father Martinius in his History of China, the Chinases do make use of lunifolar years, and they destribute them into sexagenary Cycles, the 74th of which began in the year of J. Christ 1683; fo that the first Cycle should have begun 2697 years before the birth of Jesus Christ.

By the Indian Rules of the first Section, in 60 synodical years, there are 720 solar months, and 742 lunar months, and 34 It is necessary to reject this fractitotal months, and 7.42 mar months, and 48 It is necellarly to reject this fraction, because that the lunifolar years are composed of entire lunar months. Yet this fraction in 19 fexagenary Cycles, which do make 1140 years, amounts to 5th which do make two months: therefore if the fexagenary Cycles of the Chineses are all uniform, 1140 Chinese years are flonter by two months, than 1140 fynodical years of the Indians. Wherefore if the Indians have regulated the Intercalations of their civil years by uniform fexagenary Cycles, the beginning of the did her reads a walk to preced by a little left than four months the remains. the civil year 2232, ought to precede by a little less than four months, the term of their fynodical years, which is at prefent on the 27 of March of the Gregorian year; as it happened indeed; which confirms what we have conjectured in the foregoing Chapter of the anticipation of the civil years.

toregoing Chapter of the anticipation of the civil years.

To equal the years of the fexagenary Cycle to the fynodical years regulated according to the Cycle of 19 years, it would be necessary that among 19 fexagenary Cycles there were 17 of 74z lunar months, and 2 of 7435 or tather it would be necessary that after 9 Cycles of 742 months, which do make 740 years, the tenth Cycle following, which would be accomplished in the year 600, was

of 743 months.

But there is ground to doubt whether they use it thus, seeing that the Chinese year has several times had occasion of being reformed, to refer its beginning to the fame term; times may occarion or being reformed, to refer its beginning to the fame term; in which neverthelefs the modern Relations accord only to 10 degrees: Father Martinina denoting it at the 15<sup>th</sup> degree of Aquarin; and Father Couplet at the 5<sup>th</sup> of the fame Sign; as if the Term had retreated 10 degrees fince the time of Father Martinina.

It is unquestionable that a great part of the Eclipses, and of the other Conjunctions which the Chinefes do give as observed, cannot have happened at the times that they pretend, according to the Calendar regulated after the manner as it is at prefent, as we have found by the Calculation of a great number of these Eclipses, and even by the sole examination of the Intervals which are remarked between the one and the other: for several of these Intervals are too long, or too short, to be possibly determined by the Eclipses, which do happen only when the Sun is near one of the Nodes of the Moon; where it could not possibly return at the times denoted, if the Chinese years had been regulated in the past ages, as they are at present. Father Complet himself doubts of some of these Eclipses, by reason of the Compliment which the Chinese Astronomers made to one of their Kings, whom they congratulated, for that an Eclipfe, which they had predicted, had not happed; the Heaven, they faid, having spared him this missfortune: and this Father has lest to Mt. Thevenot'a Manuscript of the same Eclipses, which he has printed in his Chronology, entituled Ecliples vera & falfa, without diffinguishing the one from the other.

But without accufing the Chinese of fallhood, it may be said, that it may be that the Eclipses set down in the Chinese Chronology might happen, and that the contradiction which appears therein may proceed from the Irregularity of

their Calendar, on which no Foundation can be laid.

### XXI. A Composition of the lunifolar Periods.

THE Interval between the two Epocha's of the Indians; which is 1181 years, is a limital at new indianation of the Indians; which is 1181 years, is a lunifolar period, which reduces the new Moons pear, the Equinox, and

to the same day of the week.

This period is composed of 61 periods of 29 years, which are longer than 1159 trepical years, and of two periods of 11 years, which are shorter than 22 tropical; the defect of the one, partly, recompending the excels of the others.

As the mixture of the lunifolar years, fome longer, others thorter, than the tropical, does more or less recompence the defect of the one by the excess of the other, as far as the Incommensurability which may be between the mori-

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ons of the Sun and Moon permits it: It makes the lunifolar periods fo much the more precise, as they reduce the new Moons nearer the places of the Zodiack where they arrived at the beginning.

The Antients have first made the tryal of the little periods, the most fautous of which has been that of 8 years, which has been in use not only amongst the ancient Greeks, but also amongst the first Christians; as it appears by the

Cycle of St. Hippolym, published at the beginning of the third Age.

This period, composed of five ordinary and three Embolishick years, being found too long by a day and half, which in 20 periods do make above a month; they were obliged to retrench a month in the twentieth period. But afterwards the period of 8 years was joyned to another of eleven years, composed of seven ordinary and four Embolismick, which is too short about a day and a half: and thereof was made the period of 19 years, which was supposed at first to be exact, the it has fince had occasion of amendment in the number of the days and hours which it comprehends. The correction of this period was the origine of the period of 76 years, composed of 4 periods of 19 years, corrected by Callippus, and of the period of 304 years, composed of 16 periods of 19 years, corrected by Hipparchus.

The fews had a period of 84 years, composed of sour periods of 19 years, and one of 8 years, which reduces the new Moons near the Æquinox on the

fame day of the week.

But the most famous period of those which have been invented to reduce the new Moons to the same place of the Zodiack, and to the same day of the week,

is the Victorian of 532 years, composed of 28 periods of 19 years.

Yet the new Moon which should terminate this period, happen'd not till two days after the Sun's return to the same point of the Zodiack, and two other days before the same day of the week, to which the conjunction was arrived at the beginning of the period; and these desects are multiplied in the succession of the times, according to the number of thefe periods. Nevertheles, after that the defects of this period were known by every one, feweral famous Chronologers have not cealed to make use thereof, and they terminate it on the same day of the week and on the same day of the fulian year, which in this interval of time exceeds the solar tropical year 4 whole days, and the lunisolar year

fomewhat less than two days. They do also multiply this period by the Cycle of 15 years, which is that of the Indictions, the origine of which is not more ancient than 13 Ages, to form the Julian period of 7980 years, of which they establish the Books 4713 years before the common Books of Jesu Christ. They prefer this imaginary period; in which the errors of the Victorian period are multiplied 15 times, to the true lunifolar periods, and they do likewife prefer this Ideal Books which they suppose more antient than the World, to the Astronomical and Historical Epocha's: even fo far that they refer thereto the Historical Acts of the antient times beeven to are that they teler thereto the Fintorical Acts of the antient times before  $\mathcal{I}_{plim}$  Copies, then no Calendar to which this period could ferve to regulate the days of the week, and that in fine the Cycle of 19 years extended to this time, demonstrates not the state of the Sun nor of the Moons, which are the three principal things for which these three Cycles which from the  $\mathcal{I}_{plim}$  period, have been invented. Wherefore it gives not see each an Idea of the ancient times, which were not regulated after this manner, as of those of the third times. times, which were not regulated after this manner, as of those of the thirteen last Ages, which were regulated amongst us according to the Inlian

But the lunifolar periods of 19 years, which in regard of the tropical years are fomewhat too long, being joyned to the periods of 111 years which are too fhort, do form other periods more precise than those which are too floor, do form other periods more precise than those which compose them. Among these periods the first of the most precise are those of 334, 353, and 372 years, the last of which is terminated also on the same day of the week;

and might be placed in the stead of the Victorian.

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## XXII. Lunisolar Periods composed of whole Ages.

THE first lunifolar period composed of whole Ages, is that of 600 years, which is also composed of 31 periods of 19, and one of 11 years. Though the Chronologists speak not of this period, yet it is one of the ancientest that

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Josephus, speaking of the Patriarchs that lived before the Deluge, says that God prolonged their Life, as well by reason of their Vertue, as to assort them means to perfect the Sciences of Geometry and Aftronomy, which they had invented: which they could not possible do, if they had lived left than 600 years, because that it is not till after

the Revolution of fix Ages, that the great year is accomplished.

This great year which is accomplished after fix Ages, whereof not any other Author makes mention, can only be a period of lunifolar years, like to that which the *Tems* always ufed, and to that which the *Indians* do ftill make ufe of Wherefore we have thought necessary to examine what this great year must be,

according to the Indian Rules.

By the Rules of the 1 Section it is found then, that in 600 years there are 7200 folar months, 7421 lunar months and 11. Here this little fraction must be neglected a because that the lunisolar years do end with the lunar months, being composed of intire lunar months.

It is found by the Rules of the II. Section, that 7421 lunar months do comprehend 219146 days, 11 hours, 57 minutes, 52 feconds: if therefore we compose this period of whole days, it must consist of 219146 days.

600 Gregorian years are alternatively of 219145 days, and 219146 days; they agree then to half a day with a lunifolar period of 600 years, calculated

according to the Indian Rules.

The fecond lunifolar period composed of Ages, is that of 2300 years, which being joyned to one of 600 makes a more exact period of 2900 years. And two periods of 2300 years, joyned to a period of 600 years do make a lunifolar period of 5200 years, which is the Interval of the time which is reckoned according to Eusebiu his Chronology, from the Creation of the World to the vulgar Epscha of the years of J. Christ.

## XXIII. An Astronomical Epocha of the years of Jesus Christ.

THese lunisolar periods, and the two Epocha's of the Indians, which we have examined, do point unto us, as with the singer, the admirable Epocha of **1** examin'd, do point unto us, as with the tinger, the admirable Epocha of the years of  $\beta$ -Cbrift, which is removed from the first of these two Indian Epocha's, a period of 600 years wanting a period of 19 years, and which precedes the second by a period of 600 years, and two of nineteen years. Thus the year of Institute of the Church, and as Father Grandamy justifies it in his Christian Chronology, and Father Ricciolus in his reformed Astronomy) is also an Astronomical Epocha, in which, according to the modern Tables, the middle conjunction of the Moon with the Sun hampened the 24 of March according to the Institute of the Moon with the Sun hampened the 24 of March according to the Institute of the Moon with the Sun hampened the 24 of March according to the Institute of the Moon with the Sun hampened the 24 of March according to the Institute of the Moon with the Sun hampened the 24 of March according to the Institute of the Moon with the Sun hampened the 24 of March according to the Institute of the Moon with the Sun hampened the 24 of March according to the Institute of the Moon with the Sun hampened the 24 of March according to the Institute of the Moon with the Sun hampened the 24 of March according to the Institute of the Moon with the Sun hampened the 24 of March according to the Institute of the Moon with the Sun hampened the 24 of March according to the Institute of the Moon with the Sun happened the 24 of March, according to the fulum form re-chablished a little after by Angustus, at one a clock and a half in the morning at the Meridian of Jerufalem, the very day of the middle Equinox, a Wednesday, De Trin. I. 4. which is the day of the Creation of these two Planets.

The day following, March 25th, which according to the ancient tradition of the Church reported by St. Anguline, was the day of our Lords Incarnation, was likewife the day of the first Phasis of the Moon; and consequently it was the first day of the month people and the first day of the month people are the month of the Moon; and consequently it was the first day of the month, according to the usage of the Hebrews, and the first day of the facred year, which by the Divine inflitution, must begin with the first month of the Spring, and the first day of a great year, the natural Epocha of which is the concourfe of the middle Equinox, and of the middle Conjuncti-

on of the Moon with the Sun-

This concourse terminates therefore the lunifolar periods of the preceding Ages, and was an Epocha from whence began a new order of Ages, according to Eclog. 4. the Oracle of the Sybil, related by Virgil in these words :

> Magnus ab integro Sæclorum nascitur ordo: Jam nova progenies Cœlo dimittitur alto.

This Oracle feems to answer the Prophecy of Isaiah, Parvulus natus est nobis; c. 9. v. 6. & 7. where this new-born is called God and Father of future Ages; Deus sortis, Pro-

ter futuri Saculi. The Interpreters do remark in this Prophecy, as a thing mysterious, the extraordinary fituation of a Mem final (which is the Numerical Character of 600) in this word אם משונים ad multiplicandum, where this Mem final is in the second place, there being no other example in the whole Text of the Holy Scripture, where ever a final Letter is placed only at the end of the words. This Numerical Character of 600 in this fituation might allude to the periods of 600 years of the Patriarchs, which were to terminate at the accomplishment of the Prophecy, which is the *Epocha*, from whence we do at prefent compute the years of Jesus Christ.

## XXIV. The Epocha of the Ecclefiastical Equinoxes, and of the vulgar Cycle of the Golden number.

THe Christians of the first Ages having remarked that the Jews of this time had forgot the antient Rules of the Hebrew years; so that they celebrated Latter twice in one year, as Conflamine the Great attefts in the Letter to the Eufeb. de vita Churches, do borrow the form of the Julian years re-fetabilithed by Angustus, Conflamini which are deftributed by periods of 4 years, three of which are common of lib. 3, c. 9. which are done therefore in the Julian Calender the day of the Equinox and they were the form of the Julian Calender the day of the Equinox and the days of the Moon with their variation, and they regulate it, some by the Cycle of 8 years, others by the Cycle of 19 years, as it appears by the regulation of the Council of Cefarea in the year of Christ 196, and by the Canon of St. Hyppolytus, and by that of St. Anatolius. But afterwards the Council of the Council cil of Nice, held in the year 325, having charged the Bishops of Alexandria, as the most experienced in Astronomy, to determine the time of Easter, these Prelates made use of their Alexandrian Calendar, where the year began with the 29th of August; and for Epocha they took the lunar Cycles of 19 years, the first Egyptian year of the Empire of Dioclesson; because that the last day of the preceding year, which was the 28th of Angust, of the 284th year of Fosus Christ, the new Moon happened near Noon at the Meridian of Alexandria. By reckoning from the Dioclesson of Alexandria and the Christopher of Youngary the Christopher o this Epocha backward the Cycles of 19 years, they come to the 28th of Augustian they year preceding the Epocha of Jefus Chrift; to that the first year of Jefus Chrift is the second year of one of these Cycles. "Tis thus that these Cycles are full computed at present, since that Dioxysius the Less transported the Cycles of the Cycles are the Cycles are the Cycles and they have the Cycles are the Cycles and they have the Cycles of the Cycles are the Cycles are the Cycles and they have the Cycles of the Cycles are the Cycles and they have the Cycles of the Cycles are the Cycles are the Cycles and they have the Cycles of the Cycles are the Cycles of the Cycles are the Cycles of the Cycles are the Cycles of the the Moon from the Alexandrian Calendar to the Roman, and that he began to compute the years from the Epocha of Jesus Christ, instead of computing them from the Epocha of Dioclesian, denoting the Equinox of the Spring on the 21st of March, asit had been set down in the Egyptian Epocha.

For the Epocha of the lunar Cycles they might have taken the Equinoxial coninction of the fame year of Jefus Chrift, rather than the conjunction of the 28th of Angust of the former year, and renew it after 616 years, which reduce the new Moons to the fame day of the Julian year, and to the fame day of the week. which is what they demanded of the Victorian period; but they thought only to confirm themselves to the rule of the Alexandrians, which was the sole method to reconcile the Eastern and Western Church. Thus these Rules have been sollowed to the past Age; altho it has been long perceived, that the new Moons

thus regulated, according to the Cycle of 19 years, anticipated almost a day in 312 Julian years, and that the Equinoxes anticipated about 3 days in 400 of

### XXV. The solar Gregorian Period of 400 years.

A Bout the end of the past Age the Anticipation of the Equinoxes since the Epocha chosen by the Alexandrians, was mounted to 10 days: and that of the new Moons in the same years of the lunar Cycle continued without interruption was mounted to 4 days: wherefore in feveral Councils there was difcourse concerning the manner of correcting these defects; and in fine, Pope Gregory XIII. after having communicated his defign to the Christian Princes, and to the most famous Universities, and having understood their Advice, deducted 10 days from the year 1582, and reduced the Equinox to the day of the year wherein it had been at the time of the Epocha, chosen by the Deputies of the

He established also a period of 400 years, shorter by 3 days than 400 Julian years, making common the hundred years for the referve of each 400, to compute from the year 1600; or which amounts to the fame thing, to reckon from

the Epocha of Jesus Christ.

These periods of 400 Gregorian years reduce the Sun to the same points of the Zodiac, to the same days of the month, and of the week, and to the same hours under the same Meridian, the greatness of the year being supposed 365 days, 5 hours, 49', 12".

According to the modern Observations, in the hundred Biflextiles the middle Equinox happens the 21st of March, at 20 hours after noon, at the Meridian of Rom; and the 96th after the hundredth Bissextile it happens the 21st of March, 2 hours, 43 minutes after noon, which is the Equinox that happens the foonest. But the 303d year after the hundredth Biffextile, the middle Equinox happens the 23d of March, at 7 hours, 12 minutes after noon, which is the flowest of all the rest.

By these Epocha's, and by this greatness of the year, it is easie perpetually to find the middle Equinoxes of the Gregorian Calendar.

### XXVI. The Rule of the Gregorian Epacts.

IN the Gregorian correction they interrupt not the fuccession of the Cycles of 19 years, drawn from the ancient Alexandrian Epocha, as they might have done; but they observe on what day of the Moon the Gregorian year ends, as they might have every year of the Alexandrian Cycle. This number of the days of the Moon at the end of a year is the Epatt of the following year. This found that after the correction of the first year of the Cycle, the Epatt is 1. Every year it is august the state of the correction of the first year of the Cycle, the Epatt is 1. Every year it is august the state of the correction of the first year of the Cycle, the Epatt is 1. mented by 11 days, but after the 19th year it is augmented by 12, always deducting 30 when it surpasses this number, and taking the rest for the Epast; which is done in this Age.

They observe also the Variation which the Epaths do make from Age to Age in the very years of the Ancient lunar Cycle, and they find that in 2500 Inlian years they augment 8 days, which supposes the lunar month of 29 days, 12 hours, 44, 3", 10", 41".

But to find the Gregorian Epatts from Age to Age, they made three different

Greg. Calend. But to find the Gregorian Epaths from Age to Age, they made three directions ables, of which it was judged the Confruction could not be clearly explain Explic. Calend ed but in a Book apart, which was not finished till twenty years after the confruence of the Gregorian English and the Age of the Gregorian English. Greg. C. 11. In rection. Twas thought at first that the whole Variation of the Gregorian Epalts was included in a period of 30000 years: But this not being found conformable to the project of the correction, they were forc'd to have recourse to some difficult equations, of which there is not found any determin'd period.

XXVII.

### XXVII. A new lunifolar and Paschal Period.

"O supply this delect, and to find the Gregorian Epaths for future Ages without Tables, we do make use of a lunifolar period of 1600 years, which has for Epocha the Equinoxial Conjunction of the year of Jefus Christ, and which reduces the new Moons fince the correction, to the same day of the Gregorian year, to the same day of the week, and almost to the same hour of the day, under the same Meridian. According to this period we give to each period of 400 years fince Jesus Christ, 9 days of Equinoxial Epast, by deducting 29 when it surpasses this number: and we add 8 days to the Equinoxial Epast since the correction, to have the Civil Gregorian Epact, by deducting 30, when the fumm furpaffes this number.

At every hundredth year, not Biffextile, we diminish the Equinoxial Epact 5 days, in respect of the hundredth preceding, and we take every hundredth year for Epocha of 5 periods of 19 years, to find the Augmentation of the Epacha for an Age at every year of the Cycle, after the accultomed manner.

Thus, to have the Equinoxial Epast of the year 1600, which is distant from the Epocha of Tesus Christ 4 periods of 400 years, multiplying 4 by 9 there is 365 from whence having deducted 29, there remains 7, the Equinoxial Epock of the year 1600, which shows that the middle Equinox of the year 1600 happen'd 7 days after the middle Conjunction of the Moon with the Sun: adding there-Expl. Cal. gi unto 8 days, there are 15, which is the Civil Gregorian Epalt of the year 1600, 420. as it is fet down in the Table of the Moveable Gregorian Feafts.

It is evident that the Equinoxial Epact of the year 11600, which terminates this period, must be o. But to find it by the same method, fince that the year til speriod, in the Epotha of Jesta Christ 29 periods of 400 years, multiplying 29 by 9, and dividing the product by 29, the quotient is 9, and the remainder 0 for the Equinoxial period: Adding 8, there is the Civil Gregorian Epast of the year 11600, which will be 8, as Clavius had found it by the Gregorian Tables, in the 168th page of the Explication of the Calendar; which demonftrates the conformity of the Epaths of the future Ages, found by the means of this period, after a method fo easie, with the Gregorian Epaths, found by the means of three Tables of the Gregorian Calendar.

If the hours and minutes of these Equinoxial Epaths in the 400 years are also demanded, thereunto shall be always added 8 hours, and besides and of of as many hours as there are whole days in the Epall, and a third of as many minutes. Thus for the year 1600, whose Equinoxial Epath is 7 days, one third of 7 hours is 2h, 20°; a tenth is 0h, 42°; a third of 7 minutes is 2': the summ added to 7 days 8 hours, makes 7 days, 11 h, 4', the Equinoxial Epath of the

Deducting this Epatt from the time of the middle Equinox, which in 1600 happened the 21 of March, at 20 hours after noon at Rome, the middle conjunction preceding will be on the 14th of March, at 8h, 56!: adding thereunto ction preceding with be on the 14th of branch, at 3, 30. and in the tunion half a lunar month, which is 14 days, 18th, 22', the middle exposition will be found on the 29th of March, at 3, 18'. In the Table of the moveable Feasts, Expl. Cal. 15th where the minutes are neglected, it is set down on the 29th of March, at 3 420.

To have by hours and minutes the Equinoxial Epath in the hundreds, not Biflextiles, from the Epatt found in the preceding hundredth Biflextile, shall be deducted 5 days, 2h, 12', for the first, double for the second, triple for the third (borrowing a month of 29 days, 12h, 44', if it is required) and you will have the Epath in the hundred proposed, which shall be made use of in the preceding example, comparing it with the middle Equinox of the fame year.

By this method will be found the middle oppositions in the hundred years, By this hieting will be found the made appoint and the manager years on the Highestile, a day before that they are fer down, from the year 1700 to the Expl. Cal. p. year 9000 in the Table of the Movable Feafts, which is in the Book of the expli-484. ad 561. p. cation of the Calendar, where they are fet down a day later than the Gregorian 301. 284. Mmm

Hypotheles

Ap. 596, ad p. Hypotheses require. Which has happened also in the precepts, and in the examples 669. P. 634 of finding the progresses of the new and full Moons, and in the Epocha's of the hundred years not Biffextile, and in all the Calculations which are deduced thence) as is found by comparing together the new Moons calculated in the fame Table, the Anticipation whereof, which from one common year to another must always be 10 days, 15 hours, is found fometimes 9 days, 15 hours, as from the year 1699 to the year 1700; sometimes 11 days, 15 hours, as from the year 1700 to 1701; and to likewife in the other hundreds not Biffextile.

Upon this account there were fome differences which gave occasion carefully to examine the progress of the new Moon, from one Gregorian hundredth to the 'other; and yet these disputes were not capable of unfolding, at that time, the real differences that there is between feveral hundred Common and Biffextile years. But as these Calculations of the full Moons have been made only to examine the Epaths, which were regulated otherwise, the differences fell only under examination, which being rectified, demonstrates the exactness of these Gregorian Epasts much greater, than the very Authors of the Correction suppo-

'Tis a thing worthy of remark, that the Aftronomical Hypotheses of the Gregorian Calendar, are found at present more conformable to the Coelestial motions, than they were supposed at the time of the correction; for as it appears by the project which Pope Gregory XIII. fent to the Christian Princes, in the year 1577, he proposed in the regulation of the years to follow the Alphonsine Tables, which were judged to be preferable to the others; but to retrench three days in 400 Julian years, he was obliged to suppose the solar year shown in the solar time to suppose the solar year shown in the suppose the solar year shorter by some seconds than the Alphonius, and to prefer this conveniency to a greater exactness: and yet all the Astronomers, which have since compared the modern observations with the ancient, have found that the Tropical year is indeed somewhat shorter than the Alphonsine, altho they be not agreed in the precise diffe-

The greatness of the lunar month which results from the Gregorian Hypothesis of the Equation of the Epacts, which is 8 days in 2500 Julian years, is also more conformable to the modern Astronomers, than the lunar month of the Alphonfine, and the disposition of the Gregorian Epasts and the new and full Moons which result therefrom, are also oftentimes more precise than they which finish-

ed the correction pretended.

In fine, the whole fystem of the Gregorian Calendar has some Beauties which have not been known by those who were the Authors thereof, as is that of giving the Epists conformable to those which are found by the great lunisolar period, which has for Epocha the fame year of Jefus Chrift, and the very day, which according to the antient tradition, immediately precedes the day of the Incarnation; from whence may be drawn the Equinoxes and new Moons with more facility than from the Agyptian Epocha of the Golden number, of which

they would in some manner keep the relation. Twere to be wish'd that, seeing that in the project sent to the Christian Expl.Cal. p.4. Princes and to the Univerfities, it was proposed to retrench 10 or 12 days from the Julian year about the end of the past Age; they had retrenched 12, which is the difference between 1600 Julian years and 1600 Gregorian years, to place the Equinoxes on the same days of the Gregorian year as they were in the fulian year, according to the form re-established by Angustus, in the Epocha of Jesus Christ, rather than to restore them to the days whereon they were at the time of the strange Epocha chosen by the Alexandrians for their particular conveniency: and that instead of regulating the Epalls by the defective Cycle of the Alexandrians, and of feeking Equations and Corrections for the Epaths born by this Cycle, they had also taken heed to the great lunifolar period of 11600 years, that we have proposed, which immediately gives the true days of the Epacls: which reduces the new Moons to the same day of the year and of the week, and which has the most august and most memorable Epocha amongst the Christians that can be imagined.

Tome II. of the Kingdom of SIAM.

I doubt not that if from this time they had found this period which we have proposed, they would have employ'd it not only for the Excellency of its Epocha, but also because the greatness of the month which it supposes is as conformable to the Alphonfine Tables, as the greatness of the year which they establish to consorus themselves to these Tables, the most that the conveniency of the calculation did permit-

the calculation did permit.

For this period is composed of 143472 lunar months, and of 426813 natural days, and consequently it supposes the lunar month 29 days, 12h, 44', 3'', 5''', 28'''', 48'''', 20'''', and the Alphonshie Tables do suppose it 29 days, 12h, 44', 3'', 2''', 58'''', 58'''', 51'''', which is shorter by 2''', than that of our period.

According to Tycho Brahe, the lunar month is 29 days, 12h, 44', 3'', 8''', 29'''', 46''''', which exceeds ours by three; thus this month is a mean between that of Alphonshia, and that of Tycho Brahe.

Therefore this great period composed of a number of these whole months and of a number of Gregorian periods of 400 years, and consequently of entire weeks, and entire days might be proposed to serve as a Rule to compare all the other periods together, and to relate the times before and after the Epocha of Jesus Christ, which would be the end of the first of our periods, and the beginning of the fecond; and as this great period has been invented in the exercises which are perform'd in the Royal Academy of Sciences, and in the Observatory Royal, under the Protection and by the Orders of the King; it feems that if the Inlian period has taken its name from Juliu Cofur, and the Gregorium from Gregory XIII, this might also justly be named the lunifolar period of LOVIS LE

Note, That what is faid at the beginning of Page 189, that in this extract the numbers are written from the top to the bottom, after the manner of the Chineses, must be understood, that they place the sum of the minutes under that of the degrees, that of the seconds under that of the minutes, that of the thirds under that of the seconds, and so successively, as we place the sums one under the other, when we would make the Addition thereof: but in every particular sum, whether of degrees, or minutes, seconds, thirds or others, the Cyphers are ranged in this extract according to our manner of ranging

Note, Alfo, that the word Souriat, which is found Page 193 and elsewhere, is the name of the Sun in the learned Language of Paliacata, and that the word aatit, which is found Page 195 is likewife the name of the Sun, but in the Balic Tongue, and also in the outgar Language of Paliacata, as it has been before remarked in the Chapter of the Names of the days, of the months, and of the years.

The Problem of the Magical Squares according to the In-

THis Problem is thus:

A square being divided into as many little equal squares as shall be defired, it is necessary to fill the little squares with as many numbers given in Arithmetical progression, in such a manner that the numbers of the little squares of each rank, whether from top to bottom, or from right to left, and those of the Diagonals do always make the fame fum.

Now to the end that a square might be divided into little equal squares, it is necessary that there are as many ranks of little squares, as there shall be little

fourres to each rank.

The little squares I will call the cases, and the rows from top to bottom upright, and those from right to left transforte; and the word rank shall equally denote the upright and transverse.

I have faid that the Cases must be filled with numbers in Arithmetical progreffion, and because that all Arithmetical Progression is indifferent for this Problem, I will take the natural for example, and will take the Unite for the

first number of the progression.

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Behold then the two first examples, viz. the square of nine Cases, and that of 16, filled, the one with the nine first numbers from the unite to nine, and the other with the fixteen first numbers from the unite to 16: So that in the square of 9 Cases, the summ of every upright, and that of every Transverse is 15, and that of each Diagonal 15 also : and that in that of 16 Cases, the summ of every upright, and that of every Transverse is 34, and that of each Diago-

4	9	2
3	٢	7
8	1	6

r	15	14	4
12	6	7	9
8	10	11	5
13	3	2	16

This Problem is called Magical Squares, because that Agripps in his second Book De Occulta Philosophia, Cap. 22, informs us that they were used as Talifmans, after having engraved them on plates of diverse metals: the cunning that there is in ranging the numbers after this manner, having appear'd for marvellous to the ignorant, as to attribute the Invention thereof to Spirits superior to man. Agrippa has not only given the two preceding Squares, but five fuccel-fively, which are those of 25,36,49,64, and 31 Cases, and he reports that these feven squares were consecrated to the seven Planets. The Arithmeticians of these times have looked upon them as an Arithmetical sport, and not as a myftery of Magic: And they have fought out general methods to range them.

The first that I know who laboured therein, was Gaspar Bachet de Meziriac, a Mathematician famous for his learned Commentaries on Diophantus. He found out an ingenious method for the unequal squares, that is to say, for those that have a number of unequal cases: but for the equal squares he could find none. Tis in a Book in Octavo, which he has entituled, Pleafant Problems by numbers.

Mr. Vincent, whom I have so often mentioned in my Relation, seeing me one day in the Ship, during our return, studiously to range the Magical squares after the manner of Bachet, informed me that the Indians of Suratte ranged them with much more facility, and taught me their method for the unequal fuguers only, having, he faid, forgot that of the equal.

The first square, which is that of 9 cases, returned to the square of Agrippa,

it was only subverted: but the other unequal squares were essentially different from those of Agrippa. He ranged the numbersin the cases immediately, and without hesitation; and I hope that it will not be unacceptable that I give the Rules, and the demonstration of this method, which is surprizing for its extream facility to execute a thing, which has appeared difficult to all our Mathe-

1. After having divided the total square into its little squares, they place the numbers according to their natural order, I would say by beginning with the unite, and continning with 2, 3, 4, and all the other numbers successively; and they place the unite, or the first number of the Arithmetical Progression

given, in the middle case of the upper transverse.

2. When they have put a number into the highest case of an upright, they place the following number in the lowest case of the upright, which follows

towards the right: that is to fay, that from the upper transverse they descend immediately to that below.

nnmediately to that below.

3. When they have placed a number in the last case of a transverse, the following is put in the first case of the transverse immediately superior, that is to say, that from the last upright, they return immediately to the first upright on

4. In every other occurrence, after having placed a number, they place the following in the cases which follow diametrically or flantingly from the bottom to the top, and from the left to the right, until they come to one of the cases of the upper transverse, or of the last upright to the right.

5. When they find the way ftopp'd by any cafe already filled with any number, then they take the cafe immediately under that which they have filled, and they continue it as before, diametrically from the bottom to the top, and from the left to the right.

These few Rules, easie to retain, are sufficient to range all the unequal squares

in general. An example renders them more intelligible.

Tome II.

17	24	1	8	15
23	5	7	14	16
4	6	13	20	2.2
10	12	19	21	3
11	18	25	2	9

This square is essentially different from that of Agrippa; and the method of Bacher is not easily accommodated thereto; and on the contrary, the Indian me-

thod may eafily give the squares of Agripps, by changing it in something.

1. They place the unite in the Case, which is immediately under that of the Center, and they pursue it diametrically from top to bottom, and from the left

2. From the lowest case of an upright, they pass to the highest case of the upright which follows on the right; and from the last case of a Transverse they return to the left to the first case of the Transverse immediately inferior.

3. When the way is interrupted, they re-affume two cases underneath that which they filled; and if there remains no case underneath, or that there remains but one, the first case of the upright is thought to return in order after the last, as if it was indeed underneath the lowest.

## An Example taken from Agrippa.

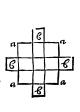
Ī	11	24	7,	20	3
	4	12	25	8	16
1	17	5	13	21	9
-	10	18	1	14	22
,	23	6	19	2	15

As Buchet has not given the demonstration of his method, I have search'd it out, not doubting but it would give me also that of the Indian method: But to make my demonstration understood, it is necessary that I give the method

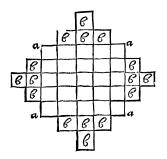
of Bachet.

1. The square being divided by cases, to be filled with numbers in the Magical order, he augments it before all things by the square sides in this manner. To the upper part of the first transverse, he adds another transverse, but contracted by two cases, viz. one at each end. Over this first transverse contracted he adds a fecond contracted by two new cases. To the second he adds a third more contracted than he former, to the third a fourth, and so on, if it is necessary, until that the last transverse have but one case. Underneath the last transverse have but one case. The last transve

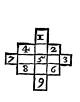
### EXAMPLES.



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The figure being thus augmented, Backet there places the numbers according to the natural order, as well of the numbers as the cases, in the following manner.



				I	_			
			6		2		_	
		II		>		3	L	
	16		12	Γ	8		4	L
21		17		13		9		5"
-	22		18		14		10	
		23		19		15		
			24		20			
		•		25				

In this disposition it is evident that the cases of the true square are alternately full, and alternately empty, and that its two Diameters are entirely full. Now the full cases receive not any change in the sequel of the operation, and the Diameters remain always such as they are by position in the square augmented: but

for the cafes of the true fquare, which are likewife void, they must be filled with the numbers which are in the cafes of Augmentation, by transporting the high ones lower, and the low ones higher, each into its upitible to of the right to the left, and those of the left to the right, each into its transverse, and all to as many cafes, as there are in the ide of the real square. Thus in the case of Augmentation at the top, is removed to the third case below in the same upitible 3, which is in the case of Augmentation at the top, is removed to the third case below in the same upitible 3, which is in the case of Augmentation on the right, is removed to ward the left, to the third case in the same upitible 5, and in since 7, which is in the case of Augmentation on the right, is removed toward the left, to the third case in the same transverse.

After the tame manner, in the figure of \$5 cafes, which has 5 in its fide, the numbers, which are in the cafes of Augmentation above, do defeend 5 cafes below each in its upright. Those of the cafes of Augmentation below do afcend five cafes above each in its upright. Those of the cafes of Augmentation on the right do país 5 cafes to the left, each in its transverse: and those of the cafes of Augmentation on the left do país 5 cafes to the right, each also in its transverse cought to be the same in all the other squares proportionably,

and thereby they will become all Magical-

### Desinitions.

1. In the augmented square of Bachet, the ranks of Augmentation shall be a called Complements of the ranks of the true square, into which the numbers of the ranks of Augmentation must be removed: and the ranks which must receive the Complements, shall be called defective ranks. Now as by Bachet's method every number of the cases of Augmentation must be removed to as many cases as there are in the side of the true square, it follows that every defective rank is as far distant from its Complements, as there are cases in the side of the true square.

2. Because that the true square, that is to say, that which it is necessary to fill with numbers according to the Magical Order, is always comprehended in the square augmented, I will consider it in the square augmented, and I will call its ranks and its diameters, the ranks and diameters of the true square: but its ranks, whether transverse or upright, small comprehend the cases, which they have at both ends; because that the numbers which are in the cases of Augmentation, proceed neither from their transverse nor from their upright, when removed into the cases of the true square, according to Backet's method.

3. The diameters of the square augmented are the middle upright, and middle transverse of the square, and they are the sole ranks which are not defective, and which receive no complement. They neither acquire, nor lose any number in Buscher's operation: they suffer only the removal of their numbers from some of their cases into others.

4. As the augmented fquare has ranks of another conftruction than are the ranks of the true fquare, I will call them Bands and Bars. The Bands descend from the left to the right, as that wherein are the numbers 1, 2, 3, 4, 5, in the preceding example, the Bars descend from the right to the left, as that, wherein are the numbers 1, 6, 11, 16, 21, in the same example.

### Preparation to the Demonstration.

THE Problems of the Magical squares consists in two things.

The first is that every transverse and very upright make the same sum, and the second that every diameter make likewise that same sum. I shall not speak at present of this last condition, no more than if I sought it not. And because that to arrive at the first, it is not necessary that all the numbers, which ought to fill a Magical square, be in Arithmetical proportion continued, but

Tome II.

that it suffices that the numbers of a Band be Arithmetically proportional to those of every other Band, I will denote the first numbers of every Band by the letters of the Latin Alphabet, and the differences between the numbers of the same Band by the letters of the Greek Alphabet: and to the end that the numbers of a Band be Arithmetically proportional to the numbers of every other Band, I will fet down

			-	a				
			8		υła			
		C		3		Yra		
	d		4		<b>448</b>		Xta	L
e		₩ď		YXc		X+B		фrа
-	who		xxa		X+¢		\$HB	
		Yxe		X+d		<b>Ote</b>		_
			Xne		\$HJ			
				φxe		•		

the differences of the numbers of each band by the same Greek Letters.

. Nothing hinders why the Sign-, may not be placed instead of the Sign +, either before all the differences, or before some, provided that the same Sign be before the same difference in each band: for fo the Arithmetical proportion will not be altered.

2. The greater a square shall be, the more Latin and Greek Letters it will have; but every band will never have but one Latin Letter, and all the Greek Letters; and the Latin Letter shall be different in each band. Every bar on the contrary shall have all the Latin Letters, and all except the first shall have a Greek Letter, which shall be different in every bar.

### Demonstration.

Rom hence it follows. 1. That the diameters of the augmented fquare have each all the *Latin* and all the *Greek* Letters, because that they have each a case of every band, and acase of every bar, and that the cases of every each a case or every band, and a case or every part, and that the cases of every band do give them all the Latin Letters, and the cases of each bar all the Greek. The sum then of these two diameters is the same, viz. that of all the Letters, as well Greek as Latin, taken at once. Now these two diameters do make an upright and a transverse in the Magical square, because that in the operation of Backet, their sum changes not by the loss or acquisition of any number, as I have already remarked.

2. As the ranks of the true square, whether transverse or upright, are as distant from their complements, as there are cases in the side of the true square, it follows that the bands, and the bars, which begin with a complement, or above this complement, touch not, that is to fay, have no case at the desective rank of this complement; and that the bands and the bars which begin with a defe-Ctive rank or above, have no case in its complement : the Letters then of the defective rank, are all different from those of the complements; because that different bands have different Latin Letters, and that different bars have different Greek Letters. But because that all the bands, and all the bars, have each a case in all the defective ranks, or in their complements: then every defective rank whatever, will have all the Letters, when it shall have received its complement; it will have all the Latin, because that all the bands, passing through every defective rank, or through its complement, do there leave all the Latin Letters; and it will have all the Greek, because that all the bars, passing also through every defective rank, or through its complement, do there leave all the Greek Letters. And thus all the defective ranks will make the same sum in the Magical square, and the same sum as the diameters of the square augmented. which are the two fole ranks not defective of the true square.

## That this Method cannot agree to even Squares.

THE Demonstration which I have given, agrees to the equal squares, as well as to the unequal, in this that in the augmented equal square, every defective rank and its complement do make the fum, which a range of the Magical square ought to make: But there is this inconvenience to the equal squares, that the numbers of the cases of Augmentation, do find the cases of the true fquare filled with other numbers, which they ought to fill; because that every case is full, which goes in an equal rank after a full case, and that in the equal fquares, the cases of the defective ranks do come in an equal rank, after those of the complements, the defective ranks being as remote from the complements, as the fide of the square has cases, and the fide of every equal square having its cases in equal number.

## Of the Diameters of the unequal Magical Squares.

BY Bachet's operation it is clear, that he understands that the diameters are such as they ought to be, by the sole position of the numbers in the augmented square: and this will be always true, provided only that it is supposed, that the number of the case of the middle of each band, be a mean Arithmetic proportion between the other numbers of the same band, taken two by two: a condition, which is naturally included in the ordinary Problem of the Magical squares, wherein it is demanded that all the numbers be in Arithmetical proportion continued.

Alternando the mean number of each bar, will be also a mean Arithmetic proportional between all the numbers of the same bar taken a mean Arithmetic proportional between an the numbers of the fadic bar taken two by two: and hereby every mean, taken as many times as there are cases in the band, or in the bar, which is all one, will be equal to the total sum of the band, or of the bar. Therefore all the means of the bands, taken as many times as there are cases in every band, or which is all one, in the side of the square, will be equal to the total sum of the square: then taken once only, they will be equal to the fum of one of the ranks of the Magical square; and it will be the same of the means of the bars: and because that the means of the bands do make one diameter, and the means of the bars the other, it is proved that the diameters will be exact by the fole position of the numbers in the augmented square, provided that every mean of a band, be a mean Arithmetic proportional between all the numbers of its band, taken two by two.
In a word, as in the fquares there are no augmented pairs, nor true fquare,

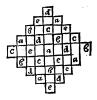
## nor diameters of the true fquare, because that the bands of the equal squares have not a mean number, 'tis likewise a reason, which evinces that this method, cannot be accommodated to the equal squares. Methods of varying the Magical Squares by Bachet's Square augmented.

1. BY varying the order of the numbers in the bands, or in the bars, provided that the order which shall be taken, be the same in all the bands, or the same in all the bars, to the end that in this order the numbers of a band or of a bar, be Arithmetically proportioned to those of every other band or bar: but it is necessary that not any of the diameters loses any of its numbers. 2. Or 000

2. Or rather ( which will amount to the fame ) by varying the order of the bars amongst them in the augmented square: for this troubles not the Arithmetical proportion, which is the ground of the preceding demonstration: but it is necessary to remember to leave always in their place the band and the bar, which do make the two diameters.

3. By not putting the first number of each band, in the first case of each

band: As for example



d, d, e, c, b, are the five letters of the first band, the order of which is arbitrary, and the letter d, which is in the first case of this first band, is not found in the first case of any other band: but in the fourth case of the second band, in the second of the third, in the sist of the fourth, and in the third of the fifth Besides the succession or order of the Letters must be the same in every band. But because that in the bands where the Letter d is in a case lower than the first. there remains not case enough underneath, to put all the other Letters successively, the first cases of the bands do return in order after the last, and are in this case thought the last cases of their bands. A circumstance which it is necessary carefully to observe.

If then in an augmented square the numbers are disposed in each band, as in the bands of this square I have disposed the Letters a, b, c, d, e, and which one continues to operate like *Bachet*, that is to say, to remove as he does, the numbers of the cases of Augmentation into the void cases of the real square, the true square will be Magical, at least as to the ranks, whether transverse or upright,

for I speak not as yet of the Diameters.

I shall call those capital cases, wherein are found the Letters like to the Letter which is put in the first case of the first band, which I will call the first case pital case.

### Preparation to the Demonstration.

1. TI is necessary to observe in disposing these Letters, that after having chofen the capital case of the second band, near a Letter of the first band, which I will call the Letter of Indication, fo that this second capital case be also the second case of the bar which begins with this Letter of Indication, one may chuse the capital case of the third band, near the Letter of the second band, like to the first Letter of Indication, so that this third capital case be the third of the bar, wherein shall be the second Letter of Indication. After the same manner shall be determined the capital case of every band, near the Letter of Indication of the precedent band. From whence it follows, that there are as many capital cases as bands, and no more.

It follows also, that not only the Letter d is always under the Letter c in the fame bar, but that all the other Letters are always under the fame Letters in the fame bars, and that the Letters have likewise the same order in all the bars, as they have the same in all the bands, though the orders of the Letters in the bars, is not the same as the order of the Letters in the bands.

1. The choice of the capital case of the second band, which determines that of the rest, is not entirely arbitrary. To regulate it 'tis necessary to have regard to the number of the ranks of the true square, which is the number 5 in the preceding example, and which is always the square root of the number, which expresses the multitude of the cases of the true square, and so I will call it the root of the fquare.

Take then a number at your own choice, provided nevertheless that it be less than the root of the square, and first to this very root, and that by adding two points, it be still first at the same root of the square: 'Twill be by this number, that we shall determine the choice of the second capital case: and we call it

the number determining.

Tome II.

The fecond capital case must not be the second case of the second band, because that this second case is found in the upright diameter of the augmented fquare, and that there must not be two Letters alike in any of the diameters of the augmented square: and so as the first capital case is already in the upright diameter, the fecond cannot be there. It is necessary on the contrary, that the case which you shall chuse in the second band, for the second capital, be as far distant from the second case of the upright diameter, as your determining number shall have Unites, and at the same time your second capital shall be removed from the first capital case as many transverses, as your determining number -2 shall have Unites. Thus in the preceding example, the second capital case, viz. the case of the second band, where is the Letter d, is the second case after that, which is in the upright diameter, and it is in the fourth transverse underneath the first capital case, which alone is looked upon as a transverse, and the number 2, which determines this fecond capital case, is first to 5, which is the root of the square, and 2 + 2 that is to say 4, is likewise first to 5, the third case of the second band is therefore the first, which removes from the upright diameter, and it is with this that it is necessary to begin to compute the distance of the rest: so that the first case of this second band is in this sense the remotest of the fecond case, though to reckon after a contrary sense it touches it.

You may then in the preceding example, where the root of the square is 5, take either 1 or 2, or 4, which do give you three different cases, of which you may make your fecond capital case, 1 is first to 5, and 1 will give you the case wherein is b, three transverses distant from the first capital case. 2 is first to 5, and 2 - 2 that is to fay 4, is also first to 5, and 2 will give you the case wherein is d, 4 transverses distant from the first capital case. 3 is also first to 5, but because that 3 + 2, that is to say 5, is not first to 5; 3 can give you in this example only a false capital case. 4 is first to 5, and 4 + 2 that is to say 6, is also first to 5, but from 6 it is necessary to deduct 5 which is the root, and there will remain 1. And 4 will give you the case wherein is e, the fourth in distance from the case of the diameter rising, and has a transverse near the first capital. The number 4 will give you then Bachet's disposition, who has placed all the capital cases in the first bar: and as often as for a determining number you shall take a less number by an Unite, than the root of the square, you will

fall into Bachet's disposition

3. From hence it follows, that the diameter afcending will not have any other capital case than the first, which it has already, and that so it will not have twice the Letter, which shall be in the capital cases. To prove it let us suppose that our bands be sufficiently extended towards the right, to make as many new uprights as we defire; and let us mark the first upright, which shall be as diftant from the diameter accending, as the root of the square has Unites that is to say, which shall be the fifth on the right of the diameter accending, if the root of the square is 5. And at a like distance from this first upright marked, let us mark a fecond, and then a third, and a fourth, always at an equal diffance one from the other, until that there are as many uprights marked, as the determining number has Unites. In this case as the determining number and the root of the square are first amongst them, the last upright marked will be the fole one, whose distance to take it from the diameter ascending, would be divisible by the determinating number.

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Suppose also, that now the bands are long enough, the capital cases are marked all together, and without ever returning to the first cases of the bands, as it was necessary to do, before that the bands were extended, because that then they had not cases enough after the capital, to receive all the Letters successively. I say that in these suppositions, none of these marked uprights will have a capital cases except the last: because that it is the sole marked upright, whose diflance from the diameter afcending unto it, is divilible by the determining number: for as the uprights, wherein are the capital cases, are as remote (viz. the first from the upright, the second from the first, the third from the second, and so successively) as the determining number has Unites, it follows that no and to fuccentively) as the determining number has futures, it follows that no upright has a capital case when the distance from the upright diameter unto it, is not divisible by the determing number. 'Tis proved then that no marked upright, except the last, will have a capital case: and the capital case which it shall have will be the first beyond the number of the cases necessary to your augmented square, because that in counting the first capital case, there will be reported the strong of the strong the strong of the strong that the strong the strong the strong the strong the strong that the strong the str as many others before this, as the root of the square has Unites.

Now when you mark the capital cases in a square augmented, according to the methed which I have given, so that when you arrive at the last case of a band, you return to its first case, as if it was after the last, you do no other thing, than successively to place all the capital cases, in respect of the diameter ascending, as in the case of the extension of the bands, you will place one after the other in regard of all the uprights facceffively marked. And none of your capital cases, except a first supernumerary, can fall into your ascending diameter, as no other, except a first supernumerary, could fall into your last upright

marked.

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4. But if you consider the first capital case, as a transverse, and that you make the same suppositions as before, so that there are as many transverses marked, as the determining number † 2 shall have Unites, and as distant (viz. the first from the first capital case, the second from the first, the third from the second, and fo successively) as the root of the square shall have Unites: From this that the root of the square and the determining number + 2 are first amongst them, and from this that the determining number + 2 expresses the distance of the transverses, wherein will be the capital cases, you will prove that there shall be only the last transverse marked, which has a capital case, which will be the first supernumerary: and consequently, that the defective rank, the first capital case of which is the complement, will have no capital case, because that it is the first transverse marked: and you will prove also that the first supernumerary capital case must return to the transverse of the first capital case, and as it must reach likewise to the upright diameter, it follows that the first supernumerary rease, that is to say, that which you would mark after the last of the necessary, is the first capital case, because there is only this which is common to its transfer verse, and to the upright diameter.

5. From the order of the letters, alike in all the bands and alike also in all the bars, you will prove that all the letters alike, are at the same distance one from the other, and in the same order amongst them, as the letters of the capital cases amongst them, and that so all the cases which contain letters alike may be considered as capital, so that two letters alike, are never found in the fame upright, nor in the fame transverse, nor in a defective rank, nor in its complement. Which needs no other demonstration.

### Demonstration.

T His supposed, the demonstration of the Problem is easie, for whereas no letter is twice in any of the diameters of the augmented square, nor in any defective rank and its complement, it follows that every of the two diameters, and every defective rank and its complement have all the letters, and that consequently they make the same summ.

He Band which makes one of the diameters being Magical by position, as Letter, nor lofes any of its own. The bar which makes the other diameter is found Magical by the disposition, and the proof is this.

As far as the bar of the fecond capital cafe is removed from the first bar, so much the bar of the fecond capital cafe is removed from the first bar, so much the bar of the third earlier of the fecond capital cafe is removed from the first bar, so

much the bar of the third capital case, is removed from the bar of the second, and fo fucceffively, the first bars to which you return, being reckon'd in this cale as coming after the laft. Now the bar of the fecond capital cale is as far diffant from the first as there are Unites in the determining number - 1. Therefore if the determining number + I is first to the root of the square, the preceding demonstration sufficeth to prove, that not any bar will have two Letters alike, wherefore the bar which shall serve as the diameter, will not have

two Letters alike, and so it will have all the Letters once.

Tome II.

But if the determining number - t is an aliquot part of the root of the square, then each bar will have as many Letters alike, as there shall be Unites in the determining number - 1, and there will be as many different Letters, as there shall be Unites in the other aliquot part of the root of the square, which shall be the quotient of the division made from the root by the determining number i. These several Letters will be therefore in an odd number, because tha this quotient can be only an odd number, being an aliquet of an odd numbert of these Letters in an odd number, the one will be the middle of the first band, the others, taken two by two, will be like to the Letters of the first band, which taken also two by two, will be equally remote from the middle, the one towards the head of the band, the other towards the tail: So that if the order of the Letters of the first band, is as the middle by its situation, or middle proportional between all the others, which, taken two by two, shall be equally remote from it, then the bar which shall serve as diameter will be Magical, because that if it has not the middle Letters of all the bands, it will have the power thereof; for the other Letters, which shall not be mean, if being taken two by two, the one is weaker than the middle of its band, the other will be stronger as much as the middle of its own; and thus the two together will countervail the middle of their bands. As for example, in the fquare of 81 cales, the root of which is 9, if the determining number is 2, 35 2 - 1, that is to fay, 3 is the aliquot part of 9, the corresponding aliquot of which, that is to say that, which returns from the division of 9 by 3, is also 3, there will be in each bar three feveral Letters which will every one be there repeated three times. The first of the different will be the middle of the first band, the two others between the different, will be alike to two of the first band equally distant from the middle. After the same manner in the square of 225 cases, the root of which is 15, if the determining number is likewise 2, as 2 + 1, that is to [ay, 3] is the aliquor part of 15 (of which 5 is the aliquor corresponding) it will happen that in every bar there will be 7 feveral Letters repeated every one three times. The one will be the middle of the first band, the 4 others will be alike to 4 of the first band, which taken two by two will be equidistant from the middle.

The Conclusion is then, that when the determining number + 1, is first to the root of the square, the bar which serves as diameter can only be Magical: but that if the determining number  $\rightarrow$  1, is aliquot of the root of the square, the bar which serves as diameter cannot be Magical 3 that the middle Letter of the first band, cannot be the middle Arithmetic of all the other Letters of its first band two by two, and that it is not the Letters of its band, which, taken two by two, are at equal distances from it, and the like of which ought to enter into the bar, which shall serve as diameter. After this the order of the Let-

ters of the first band is arbitrary.

In a word, the nearest of these equidistant Letters, shall be each as distant from the middle, as the determining number + 1 (hall have Unites, the following

ing shall be as remote from these first, every one from its own, and so such

centively.

I have faid that it is neceffary to take the fecond capital cafe in the fecond band, tho it may be taken in such other band as one pleases, provided that the band of the third capital case be as distant from the band of the fecond case, as this shall be from the first, and that the band of the fourth capital case be at this very distance from the band of the third, and so successively, the first bands returning in order after the last. But befides this, it is necessary that this distance be expressed by a number first to the root of the square, and the thing will return to the same, that is to say, to put a capital case in each band. But if you put the second capital case in a band, whose distance from the first band, was not expressed by a number first to the root of the square, then several capital cases would fall in the sirst band, which being supposed sull of all the different Letters, could not receive the like Letters, which fill the capital cases.

## Another way of varying the Magical Squares.

Y OU shall double the preceding variations, if you perform in the bars what you did in the bands, and in the bands what you performed in the bars, taking for one of the diameters, a bar which should be Magical by posttion, and rendring Magical by disposition the band which shall be the other

From these Principles it follows, that the square of o cases is always the same, without being able to receive effential varieties, because that it can have only two for the determining number: and because that the removing of the bands, or of the bars amongst them, makes only a simple subvertion, by reason that there are only two bands and two bars subject to transposition, and that the lead and the bars which serve as diameters cannot be displaced.

band and the bar which ferve as diameters cannot be displaced.

It follows also, that always one of the diameters at least must be Magical by position: and that the greatest and least of the number proposed to fill a Magical square, can never be at the center, because that the center is always filled by one of the numbers of the diameter by position, in which, be it band or bar,

the greatest nor smallest number cannot be.

On the contrary, the middle number of the whole square, that is to say, that which by the position is at the center of the augmented square, will remain at the center of the Magical square, as often as the diameter by position shall have the capital case at one of its ends, but in every other case it will go out thence, and yet it will never depart from the diameter by position.

and yet it will never depart from the diameter by pointed.

All which things must be understood according to the suppositions above explained. Besides I know that the uneven Magical squares may be varied into a supposition of the supposition

In fine, one of the diverte methods, which refult from the Principles which I have explained, is Indian, as may be proved, by removing into an augmented figuare the numbers of an Indian Magical figuare, in fuch a manner, that the cases of Augmentation be full of the Numbers, which they must render to the true square. It will be seen how the numbers sliall be ranged in the augmented square, in one of the methods which I have explained.

## An Illustration of the Indian Method.

AS I had communicated to Mr. de Malexien, Intendant to the Duke of Mayne, the Indian unequal squares, without saying any thing to him of my Demonstration, which I had not as yet fully cleared, he sound out one which has no relation to Bachet's augmented square, and which I will briefly explain because that the things which I have spoken, will help to make me understood.

Let there be a square which we will call natural, in which the numbers should be placed in their natural order in this manner.

Tome II.

I	2	3	4	5
6	7	8	9	Io
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25

The bufiness is to dispose these numbers magically into another square of as many cases and empty.

1. In confidering this square, I see that the two diameters, and the middle upright and transverse means do make the same summ: which Mr. de Malezien thought to have given ground to the Problem, out of a desire of rendering the other transverses and other uprights equal also, without destroying the equality of Diagonals.

2. Hee that the first transverse contains all the numbers, from the unite to the root of the square: that the second transverse contains these same numbers and in the same order, but augmented every one with a root: that the third contains also these very numbers in the same order, augmented every one with two roots: that it is the same in every transverse, save that the fourth has every one of these numbers augmented with three roots, that the fifth hath them augmented with four roots, and so in proportion of the other transverses, if there were more.

3. It therefore occurs naturally to my mind to confider another fquare, where in every transverse I will place the same numbers, which are in the first, that is to say from the unite to the root of the square, without augmenting them with any root in any transverse; and I find presently that the transverses will be equal in their summs, having each the same numbers; and that the uprights of this new square, will have the same sumplase one over the other, as the uprights of the natural square, because that the difference of the uprights in the natural square, proceeds not from the roots affixt to the numbers, but from these numbers which are repeated in every transverse, as it is seen in this example, where the strokes annext to the numbers, do denote the roots where with each number is augmented in the natural square.

1	2	3	4	5
1'	2'	3'	4	5'
1"	2"	3"	4"	5"
1""	2"	3"	4"	s'"
100	2""	3''"	4""	5""

4. It is evident that in this fquare all the transverses are equal, in that they have every one the same numbers, and that the uprights are only unequal because that they have not every one all those different numbers which are in every transverse.

Tome II.

transverse, but on the contrary one alone of these numbers repeated as many times as there are squares in every upright. Therefore I shall render the uprights equal to one another, if I make that not one of these numbers be twice in every upright, but that all be there once. And because that these very numbers do bear every one the fame number of roots in the fame transverse, I shall also render the transverse equal, if I make that every transverse have not all these several numbers of it self, but that it borrows one of every transverse. Thus the diameters are already equal, because that they have every one the feveral numbers that it is necessary to have, and that they take one from every transverse, that is to say, one without the root, the other augmented with a root, the other with 2, the other with 3, and so successfully.

root, the other with 2, the other with 3, and to desire the first of every transverse in a di-The true secret then is to dispose all the numbers of every transverse in a di-ametrical way, that is to say flanting, so that having placed one number, the following will be in another transverse and another upright at the same time. Which cannot be better performed than after the Indian manner.

1			1		
	_	5			
1	4			-	
				-	
١			-	-	<u> </u>
1			1	2	1

These are the numbers of the first transverse placed flanting-, so that there is not two in the fame upright nor in the fame transverse. I must therefore dispose the numbers of the second transverse after the same manner, and because that I must avoid placing the first number of this transverse, under the first of the other, I cannot do better than to place it under the last in this

		I	3'	
	5	2′		
4	ı'			
5'				3
			2	4

With the same Oeconomy I dispose the other transverses, placing always the first number of the one under the last of the other; and for one of the diameters I put the middle transverse, because that naturally it is Magical.

2"	4""	1 '	3	5
3""	5	2′	4"	1"
4	ı'	. 3"	5"	2''''
5'	2 ′	4"	11111	3
T't.	3"'	5""	1.2	4'

It is clear that in this disposition not any transverse, nor any upright have two numbers, neither from the same transverse, nor from the same upright of two numbers, neither from the lame term verte, including and all the control was also only one number from every transverse, and every upright of the natural square. This is what M. de Malezien thought, without having had the leisure to sathom it further; and it is evidently the Principle, on which the Indian Method and that of Bnobes are grounded, and all the others, of which I have shown, that it is possible to vary the Magical squares. And if care be taken that in a Magical square the ranks parallel to the diameters are defective, and that in a Magical iquare the raints paramet to the dianeters are detective, and that they have their complements, it will be feen that Barber's augmented fquare, and the Magical fquare have opposite proprieties. In the augmented fquare, the bands which are the true ranks, are not Magical, and its defective ranks augmented with their complements are. On the contrary, in the Magical fquare the ranks are Magical, and the defective ranks and their complements do contain, every one, what a bard of the augmented fquare contains.

To finish what M. de Malezieu has thought, it is necessary only to accommo-

date what we have faid concerning the choice of the capital cafes: and because that this is easie to do, I will speak no more of it.

M. de Malecien thought likewise, that this principle might ferve to the even squares, and this is true: but here likewise there is found difficulty in the executive structure. cution, because that in the even squares, the defective ranks and their compleention, because that in the even iquares, the defective ranks and their complements have every one a case in the same diameter, or have none at all, so that by dispersing the numbers from a transverse into a defective rank, and its complement, two numbers of this transverse are put into the same diameter, or else none at all, and the one and the other of these two things is equally bad. Besides there is no transverse in the even squares, which can furnish a diameter by position: and so it would be necessary to remove a little into the even squares, after the Indiam manner of dispensing the numbers, and to put one into each rank and one into each diameter. But the Method presents not it self immediately. However here is the first example thereof.

8	11	14	1
2	13	12	7
9	6	3	16
iş	4	5	10

Tome II. of the Kingdom of SIAM.

### Of the Indian Method of the Even Squares.

Thought to have divined it from the examples of the squares of 16, 36, and 1 64 cases, which Agrippa has given us.

1. As theranks are in even number in the even squares, they may be considered two by two. Comparing then the first to the last, the second to the last save one, the third to the last suve one, the third to the last suve one, the third to the last save one, the third to the last save one. us from the first and the last ranks, we will call them opposite, be they transverse,

Now because that the numbers of one rank, are arithmetically proportional with those of another rank of the same way, it is clear to those who understand arithmetical proportion, that two opposite ranks do make the same total sum as two other opposite ranks, and that if this sum be divided into two equals, each half will be the fum that a Magical rank ought to make.

2. The opposite numbers are also the first and last of the whole square, the fecond and laft fave one, the third and laft but two, and so successively, by removing as equally from the first and last numbers: so that the sum of two oppofite numbers is always equal to the sum of other opposites.

From hence it is evident, that the numbers opposite to those of one rank, are the numbers which are in the opposite rank, and that to render the sums of two opposite ranks equal, it is necessary only to take the moity of the numbers of one of the ranks, and to exchange them for their opposites, which are in the other. As for Example

	,		
1	14	15	4
13	2	3	16

1, 2, 3, 4, do make the first natural rank of the square of 16 cases, and 13, 14, 15, 16, do make the last rank thereof. To render them equal, it is necessary only to take 2 and 3, which are the moity of the numbers of the first, and to exchange them for 14 and 15, their opposites; and so 1, 14, 15, 4, will make the same sum as 13, 2, 3, 16.

The transverses between them, and the uprights between them, may render The transveries between tiem, and the upigitis between tiem, any render themselves equal by this Method: but because that the choice of the opposite numbers may be made after several ways, the *Indians* have chosen one, that is easily to retain, which leaves the diameters such as they are in the natural square, because that they are such as they ought to be, and ranges the uprights, when it is intended only to range the transverse. The whole Method consists then in knowing how to range two opposite transverses, and the rules are these.

1. They take the half of the numbers of the upper transverse, and remove them to the lower: and they take their opposite numbers in the lower transverse. and remove them to the upper.

2. The numbers which remain in each rank, do remain there in their natural place, and in their natural order: the transprosed do place themselves every one in the case of its opposite, and consequently in a subverted order.

3. The first and the last numbers of every rank do continue in their natural rank, the second and third are transprosed, the sourth and the fifth remain, the fixth and the seventh are transprosed, and so alternatively two are transprofed, and two remain-

1	63	62	4	5	59	58	8
57	7	6	60	61	3	2	64

1, 2, 3, 4, 5, 6, 7, 8, do make the first natural rank of the square of 64 cases 57, 58, 59, 60, 61, 62, 63, 64, do make the last thereof. I and 8 the first and last numbers of the first rank remain there, and in their natural place, 57 and 64 the first and last numbers of the last rank do remain there and in their place. Afterwards 2 and 3 are transprosed, 4 and 5 remain, 6 and 7 are transprosed: and after the same manner the numbers of the opposite rank 58 and 59 are removed, 60 and 61 do remain, 62 and 63 are removed. 1, 4, 5, 8, which remain in the first rank, are in their natural cases, and consequently in their natural order. 2, 3, 6, 7, which are removed, are in the cales of their opposites, and are in a subverted order. After the same manner 57, 60, 61, 64, which remain in their rank, are in their natural cases, and in their natural order. 58, 59, 62, 63, which are removed, are in the cases of their opposites; and in a subverted order.

All the oppofite ranks must be ranged according to these few rules: but it is not always certain that it may be necessary to put the first number of the rank not always certain that it may be necessary to put the first name of the fast in the first case on the left; for after this manner the first and last purishts would keep all their natural numbers, and would not be equal. Therefore it is necessary to render them equal by the same rule as the transverses, by removing half of the numbers of the first upright into the cases of their opposites, but the fast of the first purishts removing the fast of the rule half in their purishts. leaving the first and the last in their upright, removing the second and the third, leaving the fourth and the fifth, removing the fixth and the seventh, and so fucceffively according to the rules that we have given for the transverses. The head of every transverse will be then on the right, or on the left, according as its first number shall be continued or removed, to the first or to the last upright; to the right or to the left.

## An Example of the Square of 64 Cases.

i	63	62	4	5	59	58	8
56	10	II	53	52	14	15	49
48	18	19	45	44	22	23	41
25	39	38	28	29	35	34	32
33	3 I	30	36	37	2	26	40
24	42	43	21	20	46	47	17
16	50	51	13	12	54	55	9
57	7	6	60	61	3	2	64

But these rules suffice only to the squares equally even; and there is some

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particular observation for them unequally even.

Every square unequally even, if you thence deduct a compass (that is to say the first and the last transverses, the first and the last uprights) leaves a square equally even, which must be ranged according to the aforefait rules with a little alteration, which we will declare. It is necessary therefore to see how the first and last transverses do range themselves, because that the first and last uprights do range themselves after the same manner-

1. The transverses, being of a square unequally even, have each a number of cases unequally even : but if care be not taken about the two middle cases of each transverse, then there will remain in every one a number of cases equally even, which we will call the cases equally even. The first rule is therefore to remove half of the numbers of the cases equally even, and to remove those, which should be chosen for this purpose, into a transverse of a square equally even. Thus the first and the last numbers do remain in their cases, the second and the third are removed, the fourth and the fifth continue, the fixth and the feventh are removed, and fo fuccessively: but I speak only of the numbers of the cases equally even, and I only comprehend those in the account which I make, nomore than if the middle cases had no numbers.

2. The removed numbers pass not to the cases of their opposites, but into the cases which are against theirs, that is to say in their upright: and so they are not found in a subverted order in the transverse into which they pass.

## An Example taken from the Square of 100 Cases.

							- /1			
١	1			4		7			Įρ	
1		2	3				8	9		١

I have not set down the numbers 5 and 6 in this example, because that they are those of the two middle cases of the first transverse, and that the number are more of the two middle cases of the first transverse, and tarte infinite of the two middle cases of the first transverse, in every square unequally even have a particular rule, which I will give. As to the eight other numbers 1, 2, 3, 4, 7, 8, 9, 10, which are those of the cases equally even, they are ranged according to the rules which I have given. 1. The first and last are in their natural cases, then the second and third are removed, the fourth and the fifth remain in their natural cases, the fixth and the seventh are removed. 2. The removed, viz. 2, 3, 8, 9, are in the cases over against theirs, and in

their natural order, and not in an inverted order.

3. As to the two middle numbers, the first continues, and the second is removed: but the first remains not in its natural case. It passes to the case of the second, and the second is not removed to the case which is over against its own, but into that of its opposite: because that it is not necessary that the first leaves its natural case to its opposite, which shall be transported into this first transverse, and that the second seaves also to its opposite, the case which is over against its own.

-	I		_	4	6	5	7	8	9	10	
		2	3		6			8	9		١

The numbers 5 and 6 are the middle. 5 remains in its transverse, but it passes to the case of 6, and 6 is removed to the case of its opposite, and not to that which is over against its own. 4. The

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4. The numbers of the last transverse are ranged after this manner. The first and the last remain in their cases, the others fill the cases which are vacant, in the two transverses, and it is necessary to place them there successively, but in an inverted order. After this manner the two transverses become equal, because that they have given one to the other half of the numbers of the cases equally even, and that their middle numbers do make the like fum in every transverse, the opposites being together, and not in different transverses. It is possible if defired to range the second transverse as we have ranked the first, but then 'twould be necessary to rank the first as we have marked the second.

1	99	98	4	96	5	7	93	92	10
91	2	3	97	6	95	94	8	9	100

The numbers 91 and 100, which are the first and the last of the last transverse, do remain in their natural places, the others which are 92, 93, 94, 95, 96, 97 98, 99, do fill the cafes, which remained vacant in the two transverses, and they are there placed successively, but in an inverted order.

5. The first and the last uprights of the squares unequally even do rank them-felves one in relation to the other, as the sast and the last transverses: and by this means the whole square unequally even is found Magical, and by a Method

this means the whole square including terms found pragnets, and by a referrod eafle to retain, and to execute by Memory.

The demonstration thereof is palpable. For to consider the numbers, as we have ranked them in the first and last transverses, it is evident that the opposite numbers, taken two by two, are there placed either diametrically in the first and laft cafes of every transverse, or directly opposite in the same upright, and because that the opposite numbers taken, thus two by two, do always make equal funs, it follows that these two transverses being at the top and at the bottom of the squares equally even, and interior already Magical, will add equal fums to the diameters, and to the uprights of this interior square equally even; and that so the uprights and diameters of the square unequally, will be equal in their fums. It will be the same of the transverses of the square unequally even, because that its first and its last uprights will likewise add equal sums to the transverses of the interior square equally even. And our demonstration would be compleat, were not the two numbers mean as well of the first, and last transverses, as of the first and last uprights: for these numbers not being placed every right against its opposite, do add unequal sums to the middle transverses and uprights of the interior square equally even Therefore to repair this inequality, which is only of two points, it is necessary to make a little alteration in the interior square equally even, which will be the last rule of this Method.

6. By ranging the interior square equally even, according to the rules of the Magical fquares equally even 5 it is necessary to invert the order, which according to these rules of the squares equally even, the two middle numbers of the last transverse of the square of 16 cases, which is at the center of all, and the two middle numbers of the last upright of the same square of sixteen cases, ought to have, you will thus weaken the first middle upright, and the first middle transverse of the square equally even: forasinuch as in the first transverse of the square of 16 cases, the first middle number is always stronger than the second, and that in the last upright of the same square of 16 cases, the middle superior number is stronger than the inferior.

## A Square of Thirty fix Cases.

Ī	ı	35	34	3	32	6
1	30	. 8	28	27	11	7
1	24	23	15	16	14	19
	3	17	21	22	20	18
	12	26	9	10	29	25
	31	2	4	33	5	36

This fquare is that of Agrippa, fave that I have placed on the right, what he has put on the left, because that he has taken the squares which he gives, after the Hebrew Talismans, where the natural order of the numbers is from the right to the left, according to the Hebrew's manner of writing.

### A Square of 100 Cases.

	- 2								
1	99	98	4	96	5	7	93	92	10
90	12	88	87	15	16	84	83	19	11
80	79	23	24	76	75	27	28	72	21
31	69	33	34	66	65	37	38	62	7°
60	42	58	57	45	46	44	53	49	51
41	52	48	47	55	56	54	43	59	50
61	39	63	64	35	36	67	68	32	40
30	29	73	74	26	25	77	78	22	71
20	82	18	17	85	86	14	13	89	81
91	2	3	97	6	95	94	8	9	100

In the square of 36 cases the numbers 9 and 10, which are the middle of the last transverse of the square of 16 cases, which is at the center, are in an order contrary to that which they ought to have, according to the rules of the squares equally even. Thus 14 and 10, which are the middle of the last upright of the same square of 16 cases, are in a contrary number, to that which they ought to have by the same rules: for it would be necessary that 10 was before 9, and 14 under 20.

In the square of 100 cases at the seventh transverse, the middle numbers 35 and 36 are placed against the very rules of the squares equally even: 36 ought to precede 53 according to the rules: and 44 and 54 which are the middle of the seventh upright are also inverted, because that 44 ought to be under 54.

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In every fquare equally even ranged Magically, according to the rules which I have given, it is infallible that in the transferfe, which is immediately under the middle transferfes, the two middle numbers should be in an inverted order, that is to fay, the strongest precedes the weakest: for either these middle numbers are removed, and consequently in an inverted order, or they are not removed, and—they are likewise in an inverted order, because that then their transfers begins at the right: forasmuch as if the middle numbers of each rank are not removed as it is supposed, the middle of the first upright are not, and so the middle transfers begin on the left, therefore the transfers begins on the right. By a likeratiocination it will be proved that according to the rules of the squares equally even, the middle numbers of the upright, which is immediately after the middle uprights, are ranged in such a manner, that the strongest is always above the weakest.

This is Agrippa's Method of the even squares, which in my opinion are the Indian, the merit of which confilts not in giving the sole possible manner of ranging the even squares, but the most easie to execute by memory: For it is to this principally that it seems, that the Indian should addict themselves. In a word, the Indian even squares are also Magical in the Geometrical Progression.

The Indians have two Principles for the Problem of the Magical squares, the one of which they have applied to the uneven squares, and the other to the even. The Mathematicians of this Country, which have laboured herein, have known only one of these two Principles, which is that of the even squares; but they have adapted it likewise to the uneven squares, and moreover they have added a singular condition to this Problem, which is that the Magical square be so ranged, that in deducting its sfirst compass, that is to say its first and its last transverses, its sirst and its last transverses, its sirst and its last uprights, the interior square which shall remain is sound Magical, after this very kind, that is to say, being able to lose all its compasses one after the other, and to leave always for the rest a Magical square, provided that this residue have at least 9, or 16 cases, because that the square of 4 cases cannot be Magical.

Monfieur Arroad has given the folution of this last Problem at the end of his Elements of Geometry, and before that he had printed it the first time, I had also resolved this Problem in its whole extent, having been proposed to me by the late Monsieur de Fermat, Counsellor in the Parliament of Tholonge, whole Memory is yet in Veneration amongst the learned; but then I divined not Agripa's Principle of the unequal squares, nor the reason of Buchet's Method.

In fine, I am obliged to render this Teltimony to Monlieur Sauveur, Professor of the Mathematics at Paris, that he found out a Demonstration of the Indian uneven squares, which Monsieur de Melezieu communicated unto him; and that he has also invented a Method to range the even squares. I leave unto him the care of publishing this, and several other things of his own Invention, because that this Chapter is already too long.

## The Care of the Manners among st the Chineses, and of the Antiquities of their History.

Hina is happily fituated, having no foreign war to fear. It has no other Neighbours then Tartary on the North, and Tonguin on the Wett. Every where else it is bounded either by the Ocean, or with a desar to f several days Journey, or with Woods, and Mountains almost impaliable. Torquin is a very little state, if compar'd to China: and it is seared under those hot climates, from whence it never comes out as Conqueror. The Tartar is continually

248 aily accustomed only to make incursions on his Enemies, and not wars in form. A wall on the frontiers of China, which flops the passages, has sufficed during

a long fuccession of Ages, to stop all the Enterprizes of the Tartari, It is no wonder then if the Chineses are little addicted to War, and if the Turtars, tho more weak, and otherwise less proper to make Conquests, have yet

fubdued them twice in the space of three or four thousand years.

But as much as the Chineles have ignored war, as much are they experienced in the knowledge of Government. Their good natural wit has made them to improve it with for much care in the repofe which their Country has almost improve it with to much care in the repote which their Country has amost continually enjoyed, that next to the Laws which God gave unto Mose, there are none perhaps which do make a compleater body of Policy, nor whose parts concur better to the same end, than the Chincse Laws. Thus this people is the most numerous that has ever been in the World, except perhaps the people of God: which, in my opinion, is the best fign of an happy Government.

I have fufficiently declared in my relation, how the Chineses have suited their Religion to their Policy, by making of the spirit of Heaven, and of the other spirits an invisible Republick like to theirs, of which they suppose that the members have a fecret correspondence with the members of theirs, and that they punish the hidden faults of their Kings, of their Magistrates, and of

every one of their Citizens in particular.

I have observed likewife how they have provided for the Perpetuity of their Laws, by the dread of their dead Parents, whom they suppose to be provoked in the other life, with the faults which their Children commit in this, and especially with the great want of respect which it would be in the Chineses towards their Ancestors, to change the Laws which they have left them. Tis not therefore a vain Ceremony that they mourn for three years with an extream Austerive a vain Ceremony that they mount for times years with an extrain Adulta-rity, and feparated from all public Employment, which the Chinefe Laws do order Children to observe at the death of their Father and Mother, and from which they dispense not even their Kings. They cannot too much imprint in their minds this respect, which has always been their greatest support.

But what I most admire in the Laws of China, is the care which they have taken to form the Morals, feeing that it is only good manners, which can maintain the Laws, as it is only good Laws that can make good manners. Plate, methinks, underflood the whole importance of this Maxim, and if my Memory fails me not, he requires in fome places of his Laws, that they intermed dle with the privacy of the Occonomy of his Citizens: and because he feared that this might appear too new to the People, fo free as the Greeky were in his time, he fought fome excuse for the little which he delivered thereof.

The Chineses, on the contrary, have not forupled to give Laws to almost all the Addition of them. One of their most appearance and ancient Books are the additions of the contrary.

the Actions of men. One of their most ancient Books regulates not only the Rites, which concern Religion and the Sacrifices, but all the Duties of Children to their Father, and of the Father towards his Children; of the Husband to the Wife, and of the Wife to the Husband; of Brethren and Friends to each other; of the King to his Subjects, and of the Subjects to their King; of the Magiltrares to the People, and of the People to the Magiltrares. In this Book, which has the Authority of a Law, the old men are confidered as the Fathers of all the People, and of the King himfelf, the Orphans are there confidered as his Children, and all the Citizens as Brethren amongst them. Father Martinian reports, that there is almost no humane action, how small soever it be, to which this Book prescribes not Laws, even to cause trouble for an exceeding small particular. I doubt not that all the Europeans would judge like him, if this Book came to our knowledge, but this is nevertheless a very ancient Teftimony, of the extream care which the Chinefes have continually taken of good manners.

And because they knew the prevalency which the example of Kings has over People, their greatest study has always been to inspire Vertue into their Kings. The People, they say, is like the Ears of Corn wherewith a field is covered, the Morale of the Prince are like the Wind, which inclines them, where it lifteth.

Their Policy has therefore no particuluar manners for their Kings, and other manners for the People. Their Kings are obliged to respect old men: they

nourith them in every City; and the Chinese History honourably mentions such of their Kings, which have rendered them most respect, and some others, who have caused their illegitimate Brethren, which precede them in Age, to fit down at their Table, and above them. Their Kings are obliged to the three years mourning upon the death of their Father and their Mother, and to abit in during this time from the cares of the Government, altho perhaps this Law has lost it Vigour in the last times. When China was as yet divided into little States, which were as so many Fiefs of this great Empire, Ven-cum King of Cin chased out of his little Kingdom by his Step-mother, would not undertake a war to re-enter, till he had mourn d for his Father three years.

They believe amongst other things, that their dead Parents can shorten or prolong the life of their Children; they defire of them a long and happy life, and upon this ridiculous ground, they have in the fame terms with us, this precept, which we have from God himself, and of which his eternal verity is protecter unto us: Honour thy Father and thy Mother that thou mayest enjoy a long life.

Xin the first King of the Race Cina, having banished his Mother for her incontinence, and because that his Adulterer made use of the favour of this Princess to revolt, and to affemble a great Army, was constrained by all his Minifters to recall her from exile, altho he had made himself King by force, and that thereby he feemed to be stronger than the Laws.

Hoei the fecond King of the Race Hana, having also an unchast Mother, dared not to punish her: but not being willing to reign and suffer her debaucheries, he abandon'd the Government to her out of an extream Piety, and plunged himself into debauchery : fo that Hiaovu the fixth King of the same Race, put the Queen his wife to death, for fear of leaving behind him a debauched Widdow, and a Mother incommodious to his Successor.

I should not end if I would relate all the examples of the extream respect which the Chineses have for their Father, and for their Mother : I will add only that they change not their Officers, as they innovate nothing in their Laws. They are instructed also not to have less respect for their Governors, than

particular persons have for their masters. Their Governor they call *Colao*, whom they generally make their chief Minister, as the Grand Segnior calls his Grand Vizier Lala, that is to fay Governor. This respect is so entire amongst them, that they chastile, as I have said, in some place of my Relation, the Governor of the Prince the prefumptive Heir of the Crown, for the faults which that Prince commits, and that there are found fome Princes, who being become Kings have revenged their Governors.

Besides the Colao, who is the King's principal Council, he has other Officers, whose sole Function is to reprehend him publicly for his Faults. Tous the first King of the race Hiaa, who according to their History began to reign 2207 years before Fesiu Christ, gave full liberty to all good persons to give him counfel: and yet because that he found himself once reproved with too much sharpnefs, in the prefence of his principal Councellors, he was fo vexed thereat, that he had refolved to put him to death who had given him this affront: but his Wife appeared him. Being adorned more than ordinary, the prefented her felf before him: and as he was smitten with this dress, which in the perplexity wherein he was, feemed to him improper, the told him, that the came to congratulate him, forhaving in his Court fuch couragious and faithful Servants, as dare to tell him the truth.

This liberty of admonithing the Prince, paffed afterwardsinto a Law: There were, as I have faid, some Offices purposely created for the exercifing it; yet without taking it away from any other Officer of State: and the Chineles have always been to jealous of this Prerogative, that feveral have died to maintain it, and that there have been some examples, even in this Age, that when the King was obstinate not to hear any important reproof, the Officers of the Court, to the number fometimes of two Thousand, have entered into his Palace, there to lay down the Badges of their Offices So that it is impossible that a King of China can continue King, if he is vicious to a certain degree. Thus, some teil him incessantly, that it is his example, which must render the Magistrates, and the People virtuous; and that if he departs.

from the Vertue of his Ancestors, the Magistrates and People growing debauched in their Morals, would forget their fidelity which they owe him, and which is their first duty, and their first Vertue. Examples hereof are frequent in their History: in which they have not better provided for the security of their Mafter, than all the other Despotic States. According to them it is 4000 years that their Kingdom has continued in these Maxims, which render it the admiration of all its Neighbors. St. Francis Xavier reports in his Letters that the Japponeses inceffantly objected to him, that the Christian Religion could not be true, feeing that it was not known by the Chineses. Yet I know that the Chineses have some Vices, but they perhaps sin less against their Moral Law, than we do against ours. How much have our Morals degenerated from those of our Ancestors? and the Chineses, more antient than us, do still esteem it a disgrace to violate their Morals in public, and to fail in the respects which they owe to one another, either by any disobedieuce to their Parents, or by any quarrel with their equals. They are Infidels, fay fome, in Commerce; but it may be they are only fo with Strangers; as the Hebrews lent money to usury to Strangers only: and befides, the Chineses which have Commerce with Strangers, are those of the Frontiers, whose manners this very foreign Commerce has de-

The greatest Vice of the Chineses is doubtless an extream Hypocrists: but besides that it reigns every where, because it is a Vice which is free from the censure of the Laws, it is perhaps a less evil, than a publick corrup-

But if the Chinese History may be credited, 'tis Vertue alone that has formed this great Empire: the love of their Laws, which were at first etablished in a corner of this Country, gradually drew all the Neighbouring Provinces under the same yoke, it not appearing that the Chineses have conquered these Provinces. ces by any war. It is true that all these little States, which were at the begintes by any war. It is true that an there true braces, which we had all Blood, have been reunited to the Crown by CivilWars, when the Royal race has changed, and that Ufurpers have expelled the lawful Kings from the Throne; but in appears that the first subjection of all these listed States to the Crown of China between the control of the China between the control of the China between the control of the Cr has been voluntary. They fay that 44 Kingdoms, enamoured with the Vertue of Vervann, fubmitted to his Laws. He reigned over the two thirds of China, when it was yet divided. However it be, the Chinefe have been continually Enemies to war, as the principal cause of the corruption of manners, and they have preferred Morality before all the Glory of Conquests, and all the advantage of the corruption of manners.

tages of Commerce with Strangers. King Siven, the ninth of the Race Hana, 60 years before the birth of Jesus Christ, dieading the consequences of any motion of the Tartars, which sometime before had been confined within their Mountains by Hiacon, and who were returned to seize on the flat Country, resolved to prevent them, and make war upon them, before they had put themselves in a condition to carry it into China In another Country this Prudence might have been approved, but it was not at China, where the care of good manners is the main affair of the State. The Hillory therefore relates, that his Chief Minister diffiwaded him from this Enterprize by this discourse. What, Sir, do you think to invade foreign Countrys, when there are such great things to reform in your own. A Prodigy to this hour unheard of amongst us! in this year a Son has stain his Father, seven younger Brothers have killed their 25 elder Brethren. Thefe are the figus of an intolerable boldings, and which pre-fage a very dangerous corruption in our manners. Tis what we engle to be alarumed at, it is to what a speedy remedy must be applied ; for so long as these Crimes shall not be suffered at China, China will have nothing to fear from the Tartars: but if they were once permitted, I fear that they would not only extend themselves into all the Territories of the Empire, but even into the Imperial Palace.

Under Juen, the Tenth King of the same race, the Provinces of Quantong, and Quangli, and the Isle of Hainan revolting, he levied as many forces as it was possible to reduce them to their Obedience: but Kiasu, whom he appointed for their General diverted him from this war, by these words. Anci-

ently the Kingdom of China, was bounded on the East by the Ocean, on the West by the Sandy Defart, and on the South by the River Kiang : but by little and little it enlarged its limits less by Arms, than by Vertue. Our Kings do kindly receive under their Empire, those who voluntarily submit themselves out of Love to our fustice and Clemency, and seven ral neighbouring Provinces submitted thereunto: not any was compelled by force. 'Tis my advice that you abstain from this war, and that imitating the good Kings which have lived before you, you may make them to revive in your Maxims. The way to reduce a rebelions People to Obedience, is by the allurement of Vertne, and not by the horror of Arms.

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Yet China has had some conquering Kings, but two or three at most, if I am uot mistaken: though they say, that Hiaovu, who was one of these, repented of the wars which he had made, and took no care to preferve his Conquelts.

Gu-Cupn one of the Disciples of Confucius, asked him one day what things were necessary to a good Government, Plenty of Provisions, replied he, a sufficient quantity of Souldiers and Ammunition for War, of Virtue in the King and his Subjects. I understand what you tellme, replied the Disciple, but if it were necessary to lack one of these three things, which will you quit the first? The Souldiers, answered the Philosopher. But if there was a necessity also of lacking Provisions or Vertue, which of these two losses would you chuse? I would chuse, saith he, to want Provisions. He could not better testifie the Contempt of War, and the Love of good Morals. Plate would have but a small number of Citizens in his Republic, because that he dreaded the corruption in too great a Multitude, and that he cared not fo much as his Republic should last, as that it should be happy, and consequently virtuous, so long as it did laft.

In fine, the Chineses have never neglected the instruction of the People. Befides that it is ealie to know the Laws which are public, and which never alter, they publish every fifteen days, by Proclamation a small number of Precepts, which are the ground of their Moral Law, as the Commandments of God are

They have not neglected Punishments, seeing that the Magistrates do answer for the faults of their Pamily, the Parents for the faults of their Children, the Superiors for the crimes of their Inferiors, and that they all have a right to punish the faults of those, for whom they answer : but I have already handled these things, and fome others in my Relation,

This is what I had to fay, concerning the care which the Chineses have had to to preferve their Morals, the duration of which is doubtless the greatest wonder, that we have feen among men. It may be suspected, that their History is slattering in some things. They can lye, without fearing to be contradicted by their Neighbors : and it is probable that they have not always spoken the Truth; feeing that their Hiftory is the work of their policy. The Office of an Hittorian is amongst them a public Office. The History of a King is written after his death, by the order of his Succeffor, who fometimes has been his Enemy; and not any History is published, till the Race of the Kings whereof it treats, is extinct, or at least driven from the Throne. It is not lawful for any Historian, to call in question the History already written, nor for any particular perfon to write History: every one only may make Abridgments of the Histories already published. There is therefore but one single general History, and no particular Memoirs. Yet there is no appearance that they have corrupted the most important of the Events; and the Roman Historians cannot perhaps have been more faithful in what they have writ to the Honor of their Country, and to the Shame of their Enemies.

But a particular reason casts a great doubt on the Chinese History, from the beginning of their Monarchy to about 200 years before fesus Christ, because that Xin the first King of the Race Cina, who reigned about 200 years before fefur Christ, burnt as far as it was possible, all the Books of China, which treated not of Medicine or Divination. Their History shows that he exercised great cruelies, againft those which concealed Books, and that so few escaped his sury, and almost none entirely: A very singular event amongst those who continually destroy the Memorial of things past. This therefore sufficeth in my opinion to doubt, if one will, whether this great Empire could be formed without any war.

Notwithstanding this loss of their Books, the Chineses cease not to give a compleat History not only from the beginning of their Monarchy, but from the Origine of Mankind, which they make to re-afcend feveral thousands of years beyond the Truth.

Nevertheless they themselves acknowledge that their History has the femblance of a Fable, in whatever piecedes the beginning of their Monarchy; but it has been hitherto difficult to perfivade them that they had not had a long fuccession of Kings before fefus Christ, which remounts beyoud the time where our common Chronology places the flood: infomuch that feveral amongst the Missionaries have thought it necessary to have recourse to the Chronology of the Septiagint, according to which the Deluge is more ancient by several Ages, than according to the common Chronology. What repuded the Ching Library Proposed and the Ching Library Proposed Proposed in the state and or many the common Chronology. render'd the Chinese History more probable, is, that under every King it records the Eclipses, and other celestial Phanomena of his Reign: but Monsieur Caffini having examined the time of a Conjunction of the Planets, which they place under their fifth King, he has found it above 500 years later than their Hiplace under their pro King, he has found it above you years later than their Fifthey makes it; and he proves this very mifreckoning of 500 years by another Aftronomical remark, referred to the Reign of their fewerth King. Thus the Chinefe Monarchy appears less ancient by 500 years than the Chinefes have thought, and it may be prefumed that in this fucceffion of Kings, which they give us, they have put those who have reigned at the same time in diverse Provinces of China, when it was divided into feveral little Feudatary States under the fame Lord.

Monsieur Cassini having given me his Reslexions upon this subject, I have thought fit to add them here, and once again to adom my work with a Chapter after his fancy. And because he has communicated unto me a thought which he had about the fituation of the Taprobane of the Ancients, I have befought him to give it me whatever respects the Indies being not improper in this Book, and whatever comes from Monsieur Cassini being always well recei-

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## Reflexions on the Chincse Chronology, by Monsieur Cassini.

## I. The System of the Chineses.

The years of the Chineses are lunifolar, some of which are Common of 12 lunar Months, others Embolismick of 13.

The first day of the month is ordinarily the first day after the Conjunction of the Moon with the Sun, fo that the Eclipses of the Sun do ordinarily happen the last day of the month, as may be seen in the Chinese Chronology of

If the beginnings of the months do remove from this Epooha of the Conjunctions, it is easie to restore them after the observation of an Eclipse of the

The order of the Common and Embolismick years, is regulated by the Cy-

cle of 60 years, in which 22 are Embolifinick, and the others Common.

According to Father Martinius in his Chinese History, the years at the Moons Conjunction with the Sun, the nearest the fifteeth degree of Aquarius: that is to fay, the point of the Zodiack which is at equal distances from the points of the Winter Solftice, and of the Vernal Equinox: which according to this Author has been observed from the twenty fifth Age before the Birth of Fefus Christ to the present Age: tho this beginning has varied according to the will of diverse Emperors, and that they have been obliged sometimes to correct the year, from the Errors which were crept therein.

There may be more error in the Epocha of the years, than in the Epocha of the months, because that the points of the Zodiack, which determine the first month of the year, are not immediately visible, as the Eclipses of the Sun, which determine the beginnings of the months.

which determine the beginnings of the months. It is certain, as Pather Martinius remarks, that after a period of 60 lunifolar years, the Conjunctions of the Moon with the Sun return not to the fame point of the Zodiack, but that they anticipate three degrees, which the Sun runs through only in three days, which in ten periods of 60 years amount to 30 days. Thus to hinder the beginning of the year from removing above a Sign from the fifteenth degree of Aquarius, it would be necellar that the Chimofer should add to every period of 600 years a month extraordinary, above the 22 months which are added to every period of 60 years. Yet Father Marinima telates that they have no need of any intercalation: which I suppose it is neceffary to understand of these three days apart, but not of the extraordinary intercalations of the months, when this difference of three days is mounted to an whole month.

### II. Doubts upon the Chinese Chronology.

B Ut it is not known whether this be regularly practifed, or whether the Chineles do add fome months extraordinary to their years without rule, when they perceive that the beginning of the year is too remote from the middle of Aquarius; and whether the Intercalations of the months, as well ordinary as extraordinary, are made on purpole.

We have reason to doubt of what Father Couplet, who has been a long time in China, fays in his Treatise of the Chinese Chronology, that the Chineses begin their years at the Conjunction of the Moon with the Sun the nearest the fifth degree of Aquarius, which must be so at present: So that from Father Martiniu to the present Epocha of the Chinese years, they would have run back 30

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degrees.

If the Observation related by Father Martinium in his seventh Book of his History was true, the beginning of the Chinese year would be several Signs difrant from the fifteenth degree of *Aquarius*, fince the time that this degree has been affigind for a middle limit of the *Chinde* years: for he fays that according to the Chinese Historians, whose credit he suspects, the 204th year before the Epocha of Jefin Christ, in the beginning of the year, five Planets appeared in the Confiellation of Cing, which at present extends from the beginning of Caneer to the beginning of Lao, and then consequently extended from the 4th or 5th of Gemini to the same degrees of Cancer. It may be seen without any other calculation, that this observation agrees not to the System of the Chinese years: for feeing that Morenty removes not from the Sun above 28 degrees, nor Venus above 48; it is certain that Venus could not be in the Constellation Cing, before that the Sun had passed half of the Sign Aries, which is two whole Signs distant from the middle of Aquavius; and that Mercury could not appear in this Confiellation unless the Sun had passed the beginning of Taurus, and because it was necessary that at least one of these two Planets should appear in this Constellation to accomplift the number of five, or both, if the Moon meet not therein: (for the Sun in this Hypotheses could not be there) it is certain that the Sun could not be less remote from the middle of Aquarins than two whole Signs in the beginning of the year, at which this Conjunction is marked. The Chinese Hiflory remarks also, that at several times there is found some digressions in the Chinese years, which have obliged several Emperors to restore them to the first Epochs. These digressions may have happened for having intercalated the months too frequently, or for having neglected the intercalations of the months when it was necessary to make them, and as we have not the History of these intercalations, it is not possible to remove the perplexities which there is, for this cause, in the Chinese Chronology.

It is known what has been that of the Chinefes in this very age: for notwithstanding the Antiquity of their magnificent Observatories, furnished with all forts of Instruments, and the ample Colledges and Governments of Astronomy, this Nation fo very jealous of its own Glory, and an Enemy to Strangers, has been obliged to joyn with its Altronomers for the correction of their Calender, the fefuits, which went thither to introduce a Religion contrary to theirs, and to heap Honors on the Fathers Licei, Schull, Verbiest, and Grimalai, who in the time of his absence in Italy, was elected by the Emperor of China for Prefident of Aftronomy. From whence it may be judged that the Chineses had not for certain a method of regularing their years, that they have owned, that they are not capable of regulating them all alone without great Errors.

## III. An ancient Observation of the meeting of the Planets in the Constellation Xe.

Ather Martinim attributes to the fifth Emperor of China, whom he reports to have reigned from the year 2513 to the 2435th year before Jefus Chrift, the rule of beginning the year with the new Moon nearest the 15 of Aquarium.

He says that, according to the Author of the Chinese History, this Emperor saw five Planets joyned together on the same day of the Conjunction of the Sun and Moon in the Constellation Xe, which at present begins about the eighteenth degree of the Sign Psices, and extends to the fourth degree of Aries, and that he took this day for the beginning of the year.

and that he took this day for the beginning of the year. He relates not in what year of his Reign the Conjunction of the Planets was: but as this Conjunction is very rare, we may fearch whether it could happen between the 2513 and 2435th year before *Telm Christ* in this Constellation

This refearch is important, for a finuch as this Epocha would be feveral Ages ancienter than the Deluge, according to the calculation of those who place it about 2200 years between the Deluge and the Birth of Jesus Christ.

## IV. Of the Chinese Constellations.

FOR the understanding of this Celestial Character, we have examined the Chinese Constellations, of which Martinius in his History and in his Chinese Atlas gives the Catalogue calculated for the year 1628, after the European method, and we have compared them with our Constellations calculated for the

We have found by this comparison, that every Chinese Constellation begins ordinarily with some considerable fixed Star, which in the year 1628 is found in Tycho's Catalogue almost always in the same minute, as the beginning of the corresponding Constellation in the two Catalogues of Father Martinius, except 3 or 4, in which it appears, that there is a miltake of numbers in the two Catalogues, where the diffance taken from the point of the Equinox, accords not with the degrees and minutes of the Sign of the Zodiac, to which these Constellations are referred, as it agrees in the other Constellations.

Wherefore we do here infert them after two ways, according to the numbers of Father Martinius, and according to our correction.

Con-

### Constellationes Sinenses ex P. Martini historia, & ex ejus Atlante Sinico ad annum 1628.

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Nomer	١.		Long	itudo.		Gra	dus.	Signa
Kio	η.		198	39		18	39	-0-
Kang			209	14		29	14	<u>-</u> 2-
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### Fixa ad initia Constellationum Sinensium ex comparatione Tabulæ pracedentis cum Tychonica deducta Longitudines Tychonica ad annum 1628.

	Fixæ.	Grad.	Min-	
Nomina.	Spica Virginis	:04	18	39
Kio.	Austrina in simbria Virginis	-2-	29	14
Kang.	Lucida lancis australis	η	9	54
Ti.	Austr. trium in fronte Scorp.	m	27	49
Fang.	Praced. lucent. in corp. Scorp.	<i>*</i>	2	34
Sing.	Dexter humerus Ophinci.	,T	20	8
Vi.	Cuspis Sagittarij	<b>1</b>	25	43
Ki.	Antecedens in jaculo Sagitt.	<b>1</b> 2°	Š	3
Teu.	Austr. in cornu praced. Capr.	ላን*	28	54
Nieu.	Antecedens in manu Aquarij	223	6	54 35
Niu.	In humero sinistro Aquarij	æ	18	14
Hiu.	Dexter humerus Aquarij	ans .	28	12
Guei.		# ₩	18	20
Xe.	Prima ala Pegasi.			Pi

	The second secon	the state of the s		
Pi.	Extrema ala Pegasi.	$\boldsymbol{\gamma}$	4	ı
Quei.	In finistro brachio Andromed.	Υ.	15	3 <b>2</b>
Zues.	Sequens in cornu austr. Ariet.	Υ.	28	46
Lou.	In femore Arietis.	8	11	46
Guey <b>.</b> Mao.	Occid. trium lucid, in Pleiad.	αα	23	37
Pie.	Oculus Tauri Barcus.	п	3	16
Sang.	Recedens Balthei Orientis.	п	17	14
Cu.	In extremo cornu austr. Tauri	11	19	3 5
	Pes sequens praced. Gemin.	96	ē	7
Cing. Qu'ei.	Borea prac, in quad. lat. Canc.	શ	0	33
Lieu.	Septentrion, in rostro Canc.	ા	5	30
Sing.	Cor Hydra	શ .	22	9
Olag.	In medio corpore Virginis	112	0	37
Chang.	In basi Crateris.	ny ny	18	36
Ye. Chin.	Tertia in ala austrina Virg.	-≏-	4	59

This agreement of the numbers of these Tables with those of Tycho, almost in the fame minute, gave me ground to imagine that these Tables have been in the same minute, gave me ground to imagine that these Tables have been calculated by the fession, who went about an Age since to China, and not by the Chinese. For what probability is there, that without being drawn from Tybb's Tables they should be so conformable thereto? Our Astronomers of this Age sind difficulty to agree in the same minute in the place of the fixed Stars and it is known that between the Catalogues of Tycho, are that of the Landgrave of Hesse, made at the same time by excellent Astronomers, there is a difference of several minutes. Wherefore it is not very probable that the Observations of the Chineses, should agree almost always with the Observations of from the same minute. ons of Tycho in the fame minute.

### V. The Method of terminating the Chinese Constellations at any time.

FAther Martinim remarks, that the Chinoles do determine the Longitude in the Heaven by the Poles of the World, that is to fay by great Circles drawn through the Poles perpendicular to the Equinoxial, where we denote the right accentions of the Stars. Therefore the stars which are between two Circles, that do pass through the Poles, and through the two fixed Stars which

terminate a conficilation, relate to that very confiellation.

But it appears by the comparidan of the two preceding Tables, that the longitudes are noted in Tebbs Table, which reduces the Stars to the Ecliptic R, and they are noted in Tebbs Table, which reduces the Stars to the Ecliptic R, and they are the Ecliptic R. Then we not the relate of Endowed for the Ecliptic R, and not to the Equinoxial. They are not therefore fet down after the Chinese man-ner; but to reduce them after the Chinese method, it is necessary to refer the Stars which are at the beginning of every constellation to the Equinoxial, and to find their right afcentions, and the points of the Zodiack which shall have

to find their right attentions, and the points of the Lodiack which 'finall have the 'fame right aftentions, will be at the beginning of thete conftellations. When Star falls in the Colure of the Solflices, as the foot of Gemini in that Table where begins the conftellation Ging, there is no difference between its longitude after our mamer, and its right aftention, which is the longitude after the Chinefe; but as the Stars remove from the Colure of the Solflices, the difference of their longitudes and of their right aftentions anguests for much worse as the laritudes or declinations of the Stars are greater. And because more, as the latitudes or declinations of the Stars are greater. And because that the fixed Stats remove continually from one Cohere and approach the other by a motion parallel to the Ecliptick, and oblique to the Equinoxial, this difference varies continually, and otherwise more constellation than in another: whence it happens that from one Age to the other the same Chinese constellation determined by two fixed Stars enlarges, or contracts, and comprehends not always the fame number of fixed Stars.

There-

### of the Kingdom of SIAM. Tome II.

Therefore to know in what Chinese constellation a Planet falls at a certain Therefore to know in what comes contentation a Flance fails at a certain in it is necessary to find for this time the right actention of the Planet, and the right actention of the Planet, and the right actention of the fixed Stars adjoyning, which determine the beginning and end of the Conftellations; which we should not have known without the reflexion which we have made, that every Constellation begins with a certain fixed Star, and without the advice which Father Marinius gives us, that the Chine longitudes are taken from the Poles of the world, that is to fay, diffe-

Cointele iongitudes are taken from the Poles of the Arriva that is of any officerently from what they are fet down in this Table.

It appears by this Table, that the Conflellation  $X_{\ell}$  here treated of, begins with the fifth of the Wing of  $P_{\ell}g_{\ell}f_{\ell}u_{\ell}$ , and ends with the laft of the fame Wing, freeing that according to the fecond Column of this very Table, this Conflellation and the wind that the conflection of  $P_{\ell}g_{\ell}f_{\ell}u_{\ell}$  is the property of  $P_{\ell}f_{\ell}u_{\ell}u_{\ell}$ , where we tion began in the year 1628, at 18 degrees and 20 minutes of Pifees, whiere we find at the fame year the first of the Wing by Tychos Table reduced to the same time; tho the first Column of the Chinese Table gives two degrees less, which is doubtless an error of the impression or calculation, which has crept into the

two works of Father Martinius; The Originals of the Tables of Ticho and Longimon annu do likewife give the laft of the Wing at 4 degrees and a minute of Aries, where ends the Confiellation Xe, and where begins the following Constellation Pi, though the Redolphine and Philolaick Tables with those of Father Ricciolus do show the same Star at 4 and Philolatek. Tables with thole of Father Ricciolus do show the tame Star at a degrees of Pifees, which certainly is an error of the Transcribers, which is slips into the works of these Aftronomers. As these two Stars have a great Northern longitude, the first being 19 degrees and 26 minutes, the second 12 degrees and 35 minutes; the difference between their longitude and their right ascension, which the Chimeles take for longitude, is considerable at present, for assume that placehere. But it was not so considerable an right, when rence is greater than elfewhere. But it was not fo confiderable anciently, when these Stars were near the Column of the Solftices.

## VI. A Determination of the time of the meeting of the five Planets in the Constellation Xe.

H Aving reduced these Stars to the Equinoxial in the twenty fourth and twenty fifth Age before the Birth of Jefus Christ, we have not found, that between the Circles of the declinations which pass through these Stars, five Planets could be found joyned together, neither in these Ages, nor in two others before and after, whilst that the Sun was in the sign of Aquariu, as the Chinese

History imports.

But we have found that Saturn, Jupiter, Venus, Mercury, and the Moon met in that Chinese constellation determined by this method, the Sun being in the 20th of Aquarius, in the 2012 year before the Epocha of Jesus Christ, the 26th of February according to the Julian, the 9th according to the Gregorian form, which runs at present, and that the day following ½ of February at 6 a Clock in the morning at China, happend the conjunction of the Moon with the Sun, which may be that which was taken as the Epocha of the Chinese years.

Then according to the Catalogue of Tzeho, and the motion which he gives to the sixed Stats, the first of the wing of Pegasus from which began the constellation Xe. was at 26 degrees so minutes of Capricorn, and the Circle of its declination

Xe, was at 26 degrees 50 minutes of Capricorn, and the Circle of its declination

cut the Ecliptick at 24 degrees of the same sign. The last of the wing of Pagalus was at 12 degrees and a half of Aquarius, and its Circle of Declination cut the Ecliptick, and carry'd it back to the eleventh

The Morning of February 2.	in the Crepusculum at China.	·γ̂ν	24
The beginning of the Constel	lation at thas	<b>√</b> 3°	24
Saturn.		1€	26
Jupiter.		22°	27
Mercury.		223	4
Venus:	11 u u		T)

The Moon. The end of the Constellation Xe.

And in 24 hours or thereabouts happened the Conjunction of the Moon with

The Chinese Chronology places the Conjunction of the Planets between the 2513 and 2435 years before the Birth of Jesiss Christ. There will be therefore a difference of 5 Ages between the time denoted by this Chronology and the true time. Thus the Chinese Epocha will be five Ages later then the Chinese Historians suppose it.

### VII. An Ancient Observation of a Winter Solstice made at China.

This difference of five Age whereby it appears according to this calculation, that the Chinefer do make their Epocha too antient, is confirmed by another place of Father Martinian his Hiftory, where this Author reports that unider fao the seventh Emperor of the Chineses, the Winter Solstice was observed about the first degree of the constellation Hin, which at present begins about the 18th of Aquarius, so that since this time the Solstice is removed above 48 degrees from its first place; he refers this Observation to the 20th year of Jan, which he reports to have been the 2341 before the Birth of Jefus Christ.

It appears by the Table that this constellation Hin began with the Star which in the left shoulder of Aquarius, which in the year 1628 was at 18 degrees, 16 Minutes of Aquarius, but the 20th year of fao it was in 29 degrees of Sagitarius and some minutes, seeing that the Winter Solstice, which is always at the beginning of Capricorn, was at the first of the constellation Him. The distance between these two places of the Zodiac is 49 degrees 16 minutes, which the fixed Stars according to Ticho's Table do make in 3478 years, by reafon of \$1 feconds per annum: from whence having deducted 1625 years at most, which are elapted from the Epecha of Houchit, the 20th of How would be the 1852 year before the Birth of Hou Christ, which Father Marinia according to the Chinese History placeth in the 2347th year before Tesus Christ, making it more antient by about 497, years. Thus there are about 5 Ages difference between this Epocha taken from the Chinese History, and the same drawn from the motion of the fixed Stars made in this interval of time, as we have found by the Examination of the Observation of the 5 Planets in the Constellation Xe.

According to Father Martinius in the beginning of his History of China, it feems that the Chineses do reckon but five Planets, Saturn, Jupiter, Mars, Venus, and Mercury, and that they suppose at the time of their sith Emperor, the concourse of this sive suppose the concourse of the sive suppose that there was a Conjunction of the Moon with the Sun. But if this Chinese observation must be thus understood, 'twould be a meer groundless mistake: such a concourse having not happened at the time denoted by the Chineles, nor long before it, so that it cannot be known perhaps how to take it.

The Historians supported with Astronomical Observations, do merit therefore to be examined before that credit be given thereunto. Thus an account of Eclipses, which is at the beginning of Diogenes Laertius, and which he relates after Soticn, is condemned as falle by Monsieur Cassini. Sotion recknied 48863 years between Vulcan and Alexander the Great, and in this interval he placed 373 solar Eclipses, and 832

A too ready belief must not likewise be given to an History, because it gives us a well ranged succession of Kings. The Persians do give tu one of this Nature, which we know to be full of falfities : and we have the Genealogies of our Kings from Aclam, which are jet more spurious. 'Tis not only from a well adjusted succession, that the Histories to which we give credit, do take their certainty, but from that they are confirmed one by the other: All the Nations that can have a knowledge of the same things, relating them after the same manvier, at least as to the most important circumstances, so that where there is a diversity of

advice we fall into doubt. The History of the Chineses has neither been contradicted, nor confirmed by their Neighbours : no Authority can be drawn from their silence ; and thus all that we have to do, is to believe it true in the grofs, especially from about 200 years before Tefus Christ; but not in what oppugns our Histories, which are better attested than theirs.

Tome II. of the Kingdom of SIAM.

## Concerning the Isle Taprobane, by Monsieur Cassini.

HE fituation of the Isle Taprobane, according to Ptolomy in the seventh Book of his Geography, was over against the Promontary Cari. This Promontary is placed by Ptolomy between the Rivers Indus and Ganges,

nearer Indus than the Ganges.

This Isle Taprobane was divided by the Equinoxial Line into two unequal parts, the greatest of which was in the Northern Hemisphere, extending to 12 or 13 degrees of Northern Latitude. The least part was in the Southern Hemisphere, extending to two degrees and a half of Southern Latitude.

Round about this Island there were 1378 little Isles, among which there were 19 more confiderable, the name of which was known in the West.

The Promontory Cory could be no other than that, which is at present called Comori, or Comorin, which is also between the Indus and Ganges, nearer the Indus than the Ganges.

Over against this Cape there is not at present so great an Isle as Taprobane, which could be divided by the Equinoxial, and environed with 1378 Ifles: but there is a multitude of little Ifles, called Maddiva, which the Inhabitants report to be to the number of 12 Thouland. According to the Relation of Pizard, who lived there five years, these Isles have a King, who assumes to him-

felf the Title of King of 13 Provinces, and 12 Thousand Isles.

Every one of these thirteen Provinces is an heap of little Isles, each of which is environed with a great bank of Stone, which incloses it all round like a great wall: they are called Attolors. They have each Thirty miles in circumference, a little more or less, and are of a figure almost round, or oval. They are end to end one from the other, from the North to the South; and they are separated by Channels of the Sea, fome broad, others very narrow, These Stone banks which environ every Attollor, are fo high, and the Sea breaks there with fluch an impetuofity, that they which are in the middle of an Attollor, do fee these banks all round, with the Waves of the Sea which feem as high as the Houses. The Inclosure of an Attollon has but 4 Avenues, two on the North-fide, two others on the South-side, one of which is at the East, the other at the West, and the largeft of which is 200 paces, the narrowest somewhat less than 30. At the two sides of each of these Avenues there are some life; but the Currents and great Tides do daily diminish the number thereof. Pirard adds, that to see the inside of one of these Attollens, one would say that all these little Isles and the Channels of the Sea, which it incloses, are only a continued plain, and that it was antiently only a fingle Island, cut and divided afterwards into several. Every where almost is seen the bottom of the Channels, which divide them, so shallow they are, except in some places: and when the Sea is low, the water reaches not up to the girdle, but to the middle of the leg almost every where.

There is a violent and perpetual Current, which from the month of April to the month of Ottober comes impetuoully from the West, and causes the continual rains which do there make the Winter; and at the other fix months the Winds are fixed from the East, and do bring a great heat, without any rain, which causes their Summer. At the bottom of these Channels, there are great Stones, which the Inhabitants do use to build with, and they are also stored with a kind of Bushes, which resemble Coral; which renders the passage of the

Boats through these Channels extreamly difficult.

'Tis therefore probable that the Maldiva are a remainder of the great Island Taprobane; and of the 1378 Islands which did encompass it, which have been carryed away, or diminished by the Currents, there remaining nothing else but thefe Rocks, which mult formerly be the bales of the Mountains: and what remains in the inclosure of thefe Rocks, where the Sea dashes so, that it is capable only of dividing, but not of carrying away the Lands which are included

within their Circuit. It is certain that these liles have the same situation in regard of the Equinoxial and Promontory, and of the Rivers India and Ganger, that Protomy alligns to feveral places of the Isle Taprobane.

The Lords Prayer and the Ave Mary in Siamele, with the Interlineary Translation, to be inserted in Page 180.

Father our who art in Heaven. The Name of God be glorified in all places hai pra kot tonk heng Scheu Pra Po raou you savang. by People all offer to God praife. The Kingdom of God I pray to find Menang Pra tonai Pra pon kon tang tai with us to finish conformable to the heart of God in the Kingdom of tchai pra ke raou hai leon ning the Earth even as of Heaven. The Nourishment of us of all days I pray touk van Ahan raou **Savang** Pen-din (emo to find with us in day this I pray to pardon the offences of us even Ьлр TAOH prot ni co bai dai keraou as we pardon persons who do offences to us do not let us fall into ke raon. Ya hai tam bap mo raou prot all. deliver out of evil the cause of Sin anerai tang poang. bai poun kiac knuan

God be in the place of you. You just-good full of Grace Nang Soum-bon Pra you heng nang. Ave Maria Ten anisong, With Sons Womb in the place of you all more than Toni lonk cutong, yingkoua nang tang tai. just charitable more than all. God the person of Jesus Santta Maria ying kona tang tai. foum-boui Ongkiao Yesu affift by prayer to God for us people Mother of God ving von Pra pro racu kon thoui Pra Me in the time of our dying, now and raon tcha tai, teit-bat-ni

ERRATA.

ERRATA.

PAge 10,line 2, read particular, p. 14. 1. 34. r. a Pree, p. 33.1. 8. r. which are, p. 36. 1.36. r. obliged to homer, p. 39.1. 11. Exterpleft, 1. 16. r. ac. 4. 1. 43. r. not how resp. 68.1. 38, 39, 43, 45, add Bells, p. 73. 1. 23. r. trela, p. 81. 1. 23. r. tgold, p. 87. l. 50. r. is evided, p. 103. 1. 15. r. tertain, p. 104. 1. 50. r. extinguish, p. 108. 1. j. 23. r. terdin, p. 109. 1. dele tile p. 10. 1. r. r. r. r. trela, p. 13. r. trela, p. 13. r. trela, p. 13. r. trela, p. 13. l. 17. dele tile, p. 1. 36. l. 11. t. t. leaf of, p. 159. l. 11. Millionaries, p. 169. 1. 91. r. tales, p. 156. 1. 14. r. Treuas, p. 166. 1. 42. r. Treuas, p. 156. l. 10. r. Treuas, p. 166. l. 10. r. Treuas, p. 17. l. 1. dele tile, p. 175. l. 13. dele tile, p. 176. l. 14. r. treuas, p. 176. l. 176. r. treuas, p. 176. l. 176. r. treuas, p. 176. l. 177. l. r. treuas, p. 177. l. 1. dele tile, p. 179. l. 13. r. treuas, p. 177. l. 1. dele tile, p. 179. l. 13. r. treuas, p. 176. l. 11. r. treuas, p. 176. l. l. r. treuas, p. 176. l. l. r p.17. l. las. r. the years begin, p.253. l.27. r. 10 degrets, p. 154. l.7. r. Ricci, p.255. l.36. after deddien add . p. 256. l.16. r. thefe Chinele, l.22. r. and, l.51. r. otherwife in one Confiellation.

FINIS.